

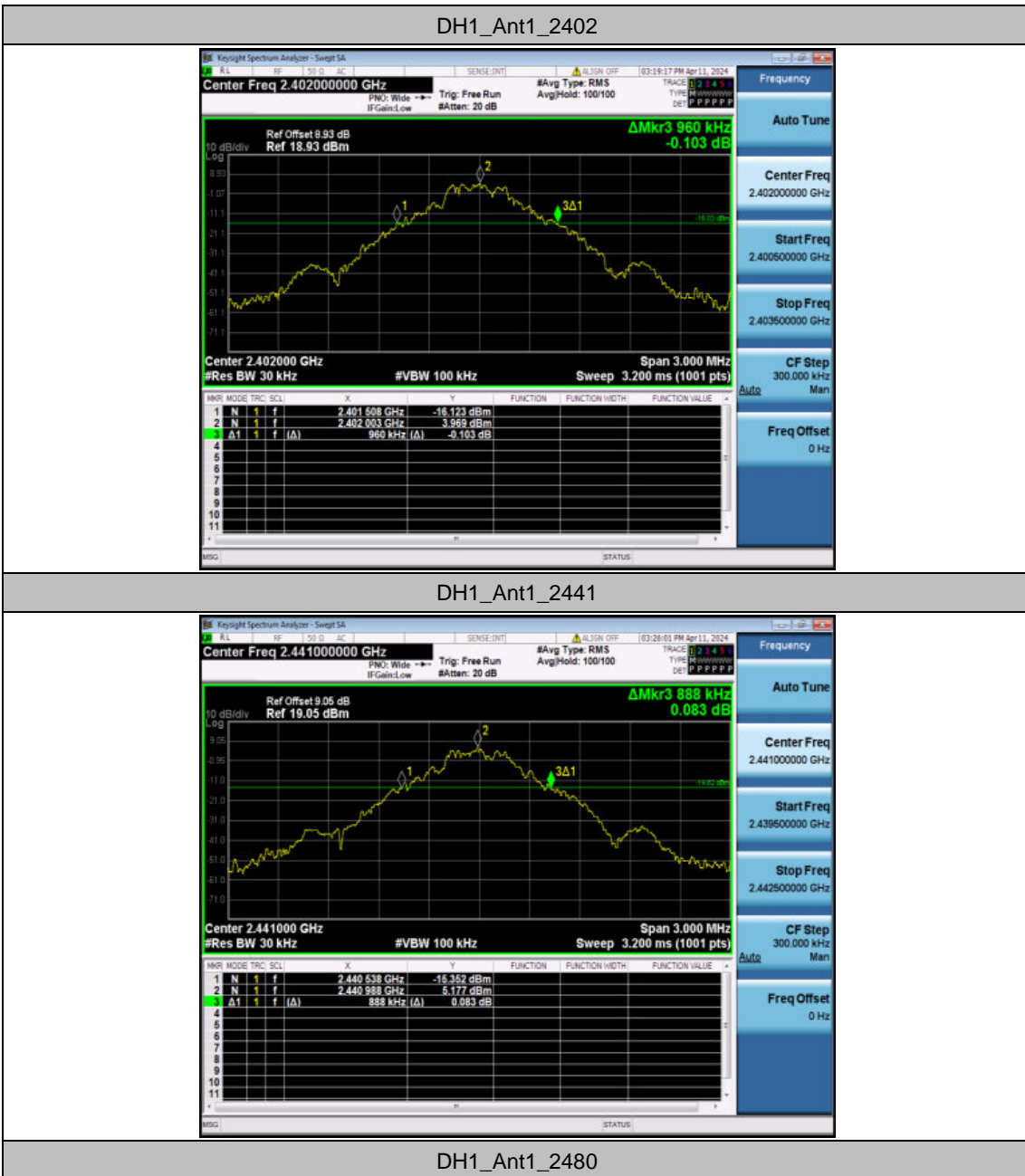
Case No. : <u>GTS20240320024-1-10</u>
Ambient Condition: <u>22 °C, 57 %RH</u>
According Standard: <u>■Part15C</u>
Test Date: <u>2024.4.9</u> Test Engineer: <u>Evan ouyang</u>

Appendix A.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.960	2401.508	2402.468	---	---
		2441	0.888	2440.538	2441.426	---	---
		2480	0.888	2479.541	2480.429	---	---
2DH1	Ant1	2402	1.458	2401.238	2402.696	---	---
		2441	1.479	2440.229	2441.708	---	---
		2480	1.464	2479.235	2480.699	---	---
3DH1	Ant1	2402	1.458	2401.268	2402.726	---	---
		2441	1.446	2440.277	2441.723	---	---
		2480	1.437	2479.277	2480.714	---	---

Test Graphs





2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480

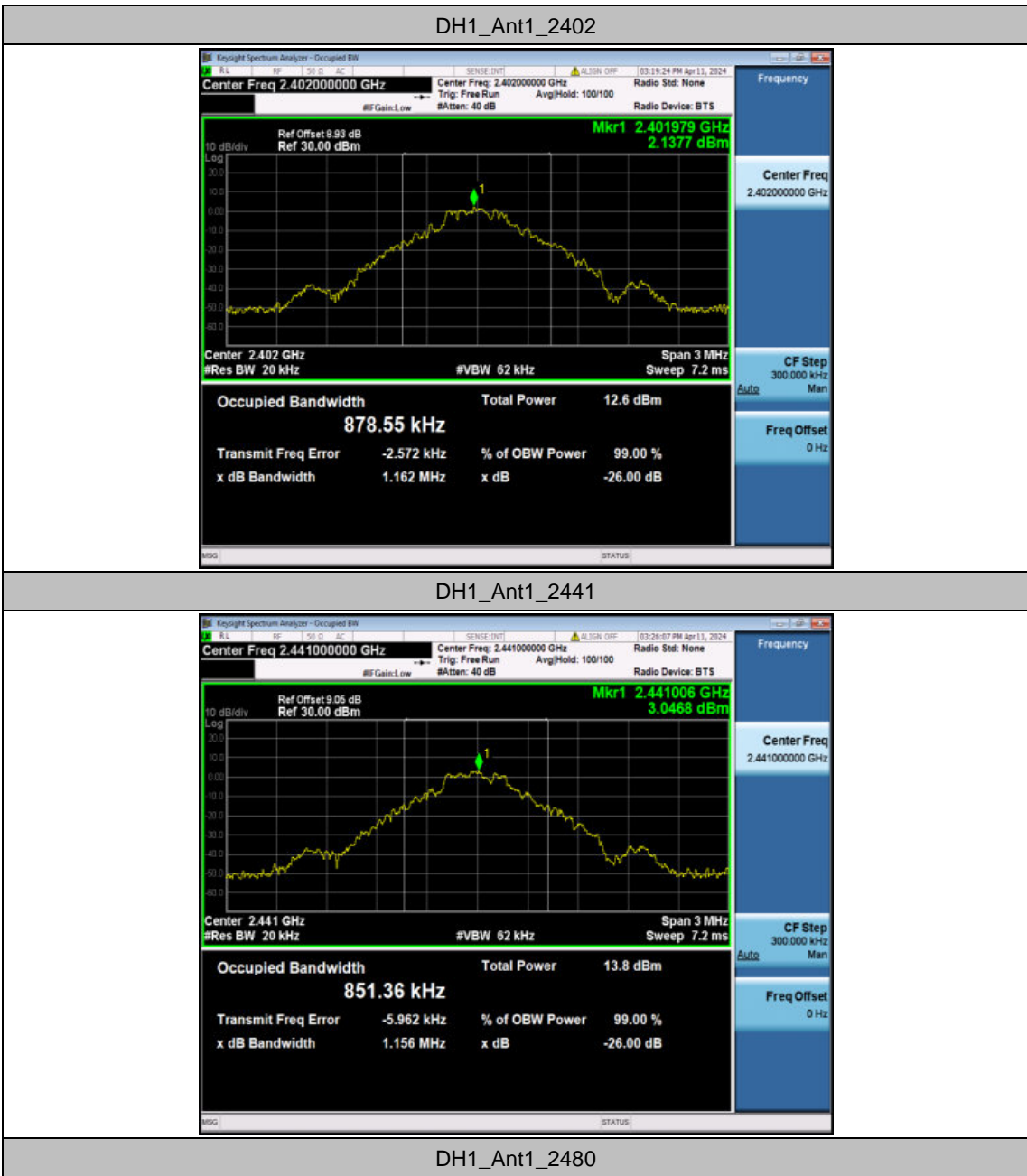


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.87855	2401.5582	2402.4367	---	---
		2441	0.85136	2440.5684	2441.4197	---	---
		2480	0.86034	2479.5625	2480.4229	---	---
2DH1	Ant1	2402	1.3481	2401.3151	2402.6632	---	---
		2441	1.3349	2440.3253	2441.6602	---	---
		2480	1.3410	2479.3222	2480.6632	---	---
3DH1	Ant1	2402	1.3404	2401.3173	2402.6577	---	---
		2441	1.3425	2440.3238	2441.6663	---	---
		2480	1.3437	2479.3205	2480.6642	---	---

Test Graphs





2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



Appendix A.3: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	6.81	≤20.97	PASS
		2441	7.83	≤20.97	PASS
		2480	7.57	≤20.97	PASS
2DH1	Ant1	2402	5.78	≤20.97	PASS
		2441	5.92	≤20.97	PASS
		2480	6.34	≤20.97	PASS
3DH1	Ant1	2402	5.83	≤20.97	PASS
		2441	6.15	≤20.97	PASS
		2480	6.60	≤20.97	PASS

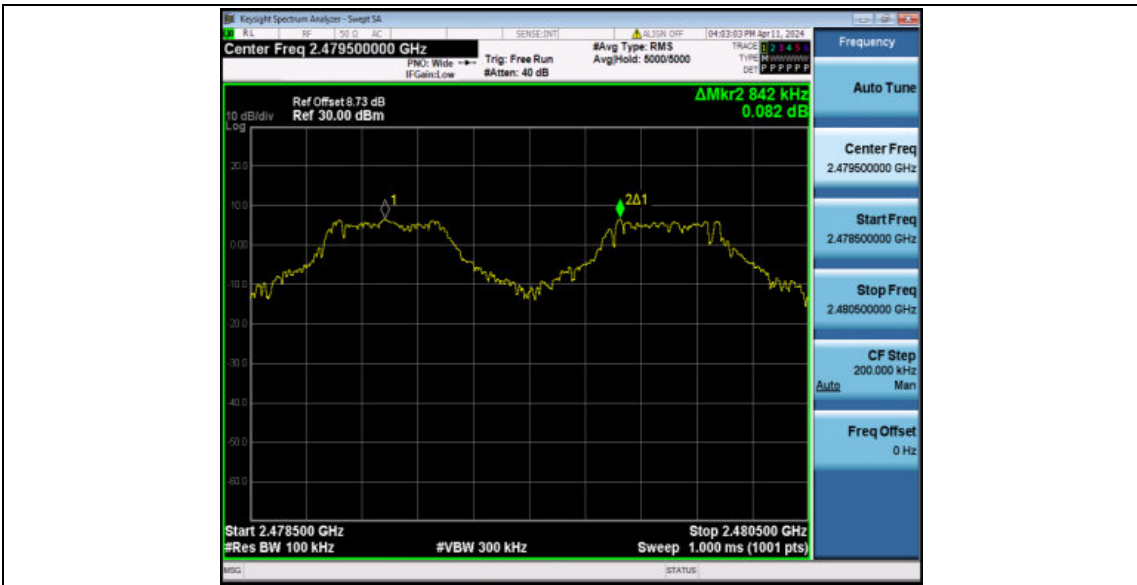
Appendix A.4: Carrier frequency separation

Test Result

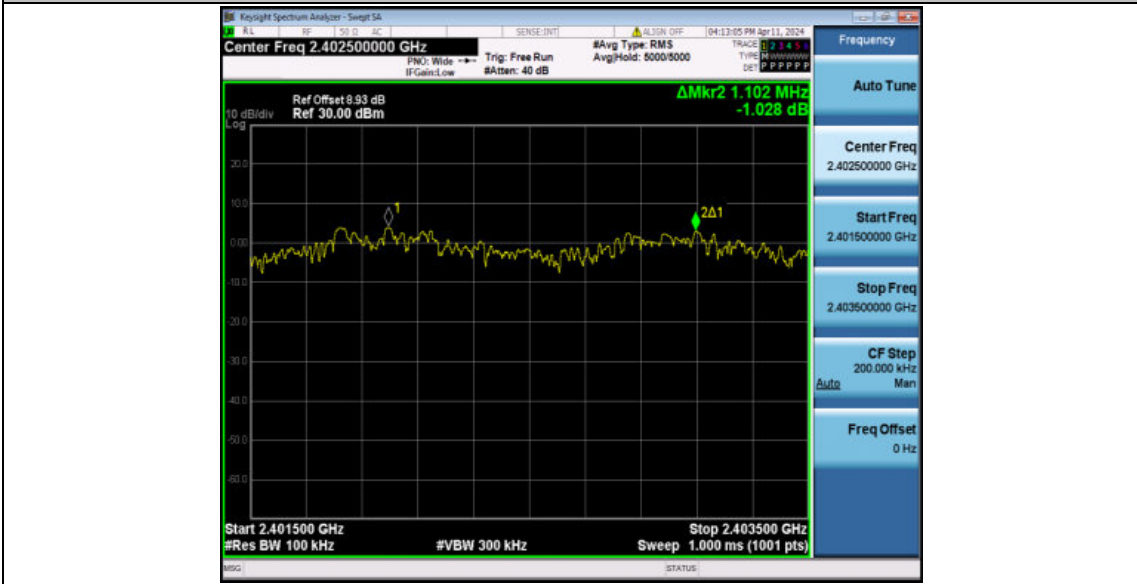
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.848	≥0.640	PASS
		Hop_2441	1.006	≥0.640	PASS
		Hop_2480	0.842	≥0.640	PASS
2DH1	Ant1	Hop_2402	1.102	≥0.986	PASS
		Hop_2441	0.998	≥0.986	PASS
		Hop_2480	1.01	≥0.986	PASS
3DH1	Ant1	Hop_2402	1.008	≥0.972	PASS
		Hop_2441	1.156	≥0.972	PASS
		Hop_2480	1.334	≥0.972	PASS

Test Graphs





2D1_Ant1_Hop_2402



2D1_Ant1_Hop_2441



2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441



3DH1_Ant1_Hop_2480

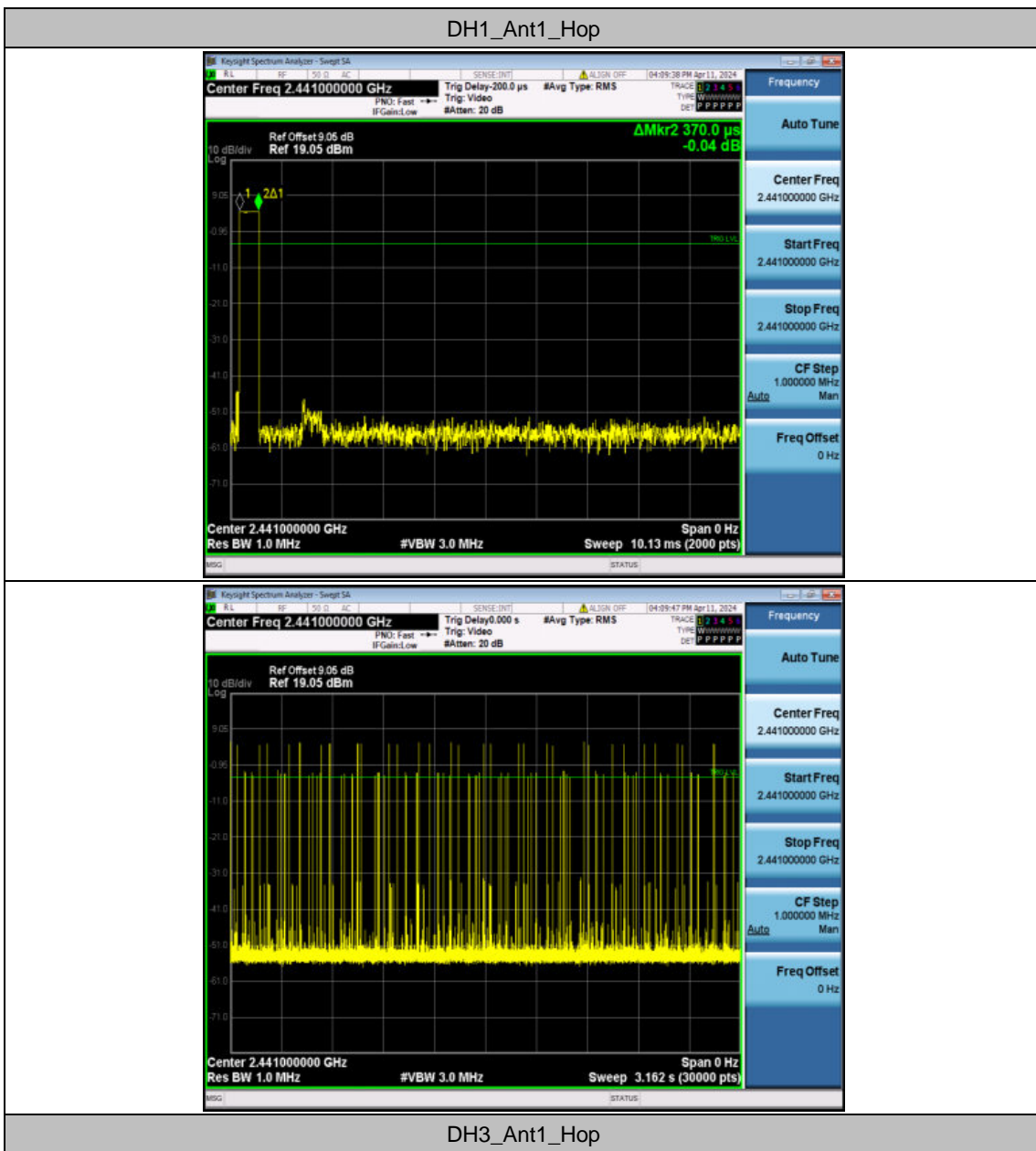


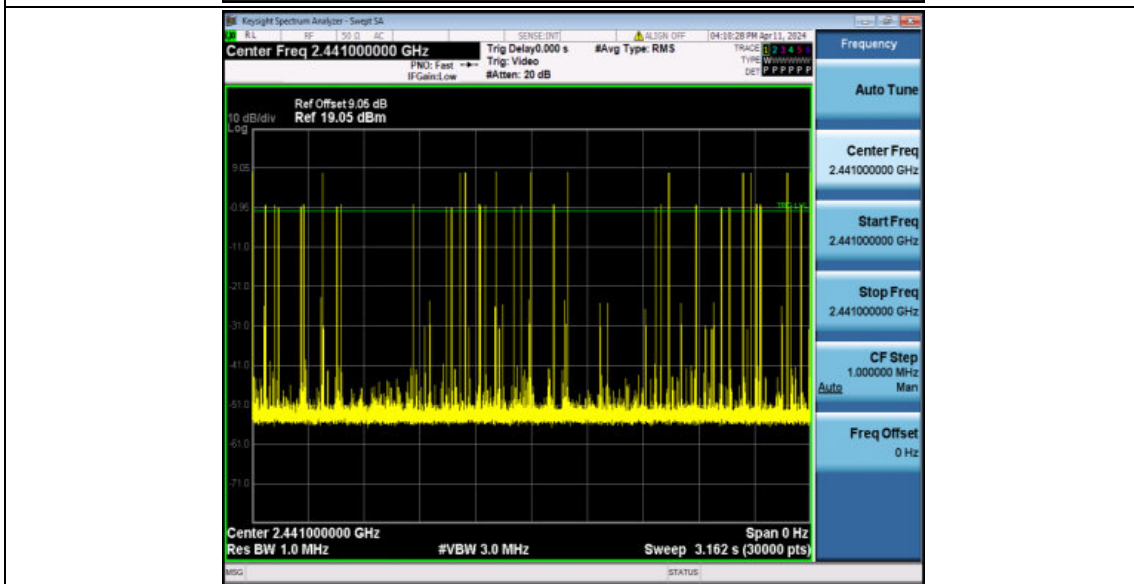
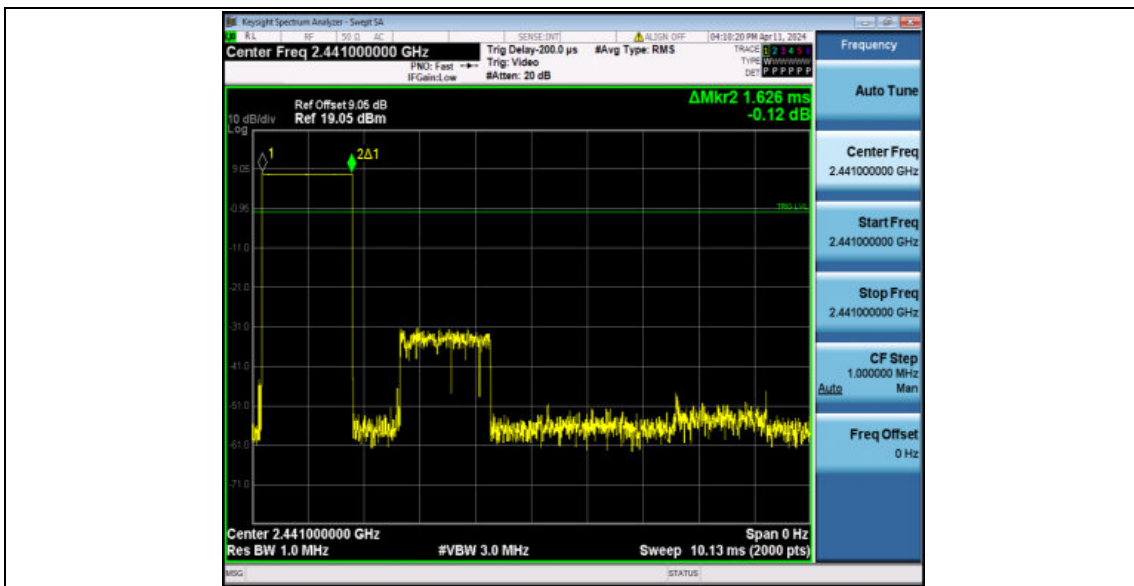
Appendix A.5: Time of occupancy

Test Result

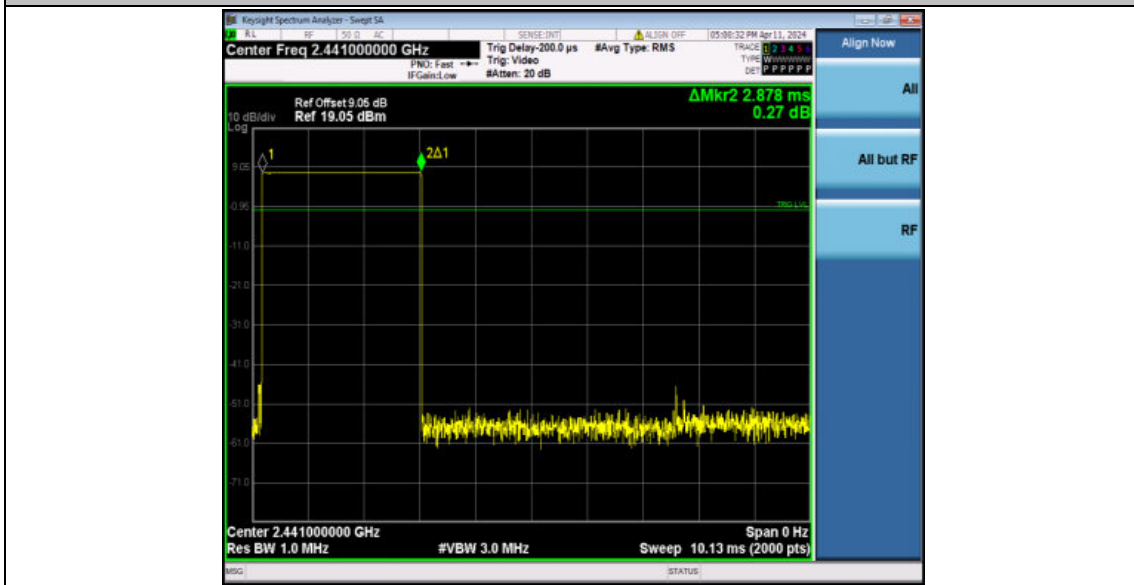
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	320	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.626	120	0.195	≤0.4	PASS
DH5	Ant1	Hop	2.878	80	0.23	≤0.4	PASS
2DH1	Ant1	Hop	0.385	360	0.139	≤0.4	PASS
2DH3	Ant1	Hop	1.631	220	0.359	≤0.4	PASS
2DH5	Ant1	Hop	2.878	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.380	390	0.148	≤0.4	PASS
3DH3	Ant1	Hop	1.631	150	0.245	≤0.4	PASS
3DH5	Ant1	Hop	2.883	130	0.375	≤0.4	PASS

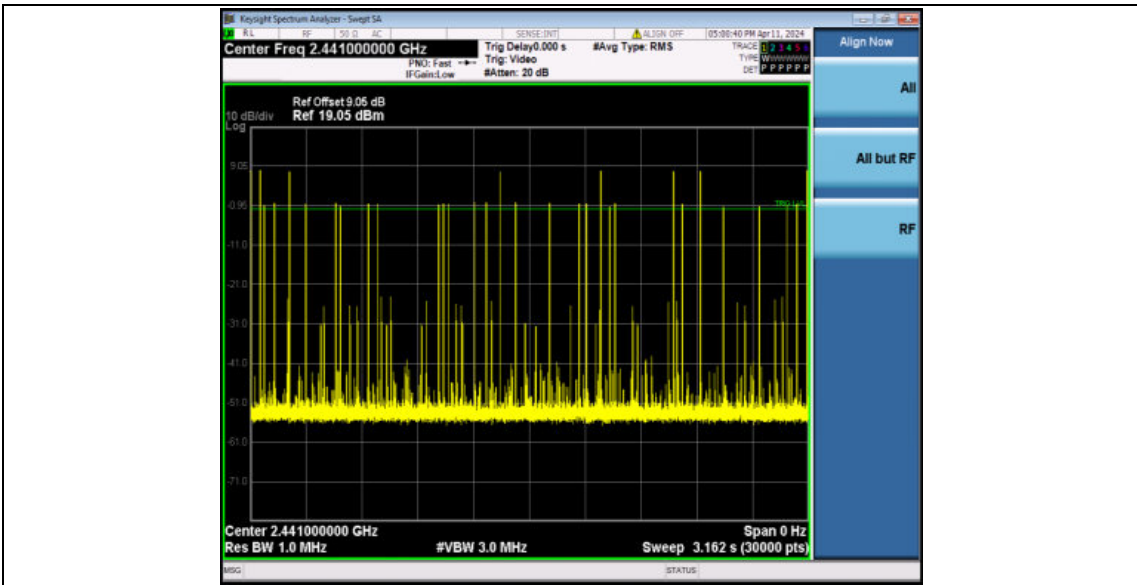
Test Graphs



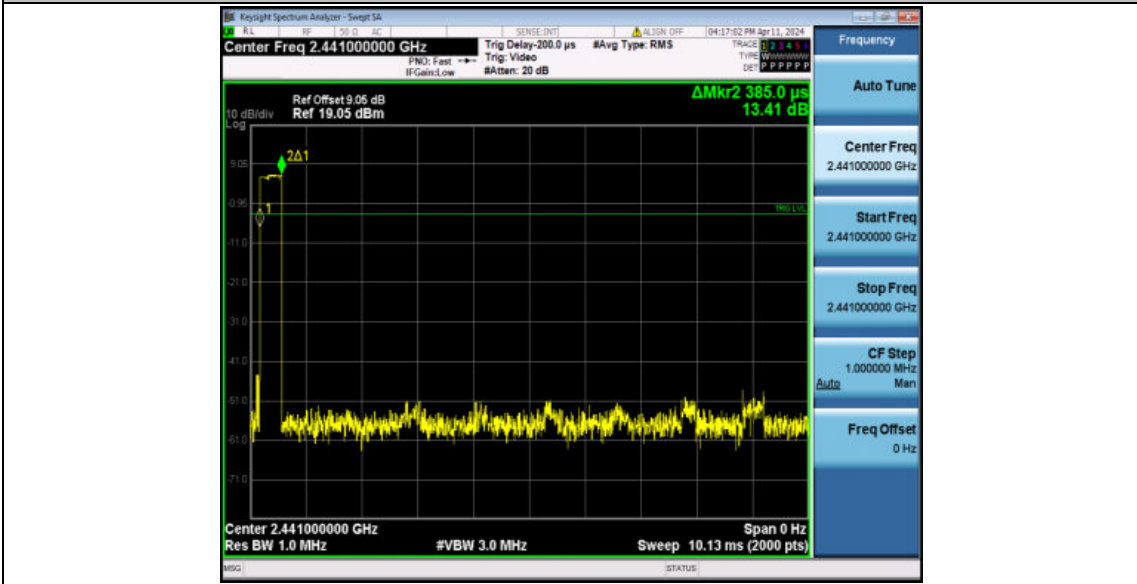


DH5_Ant1_Hop

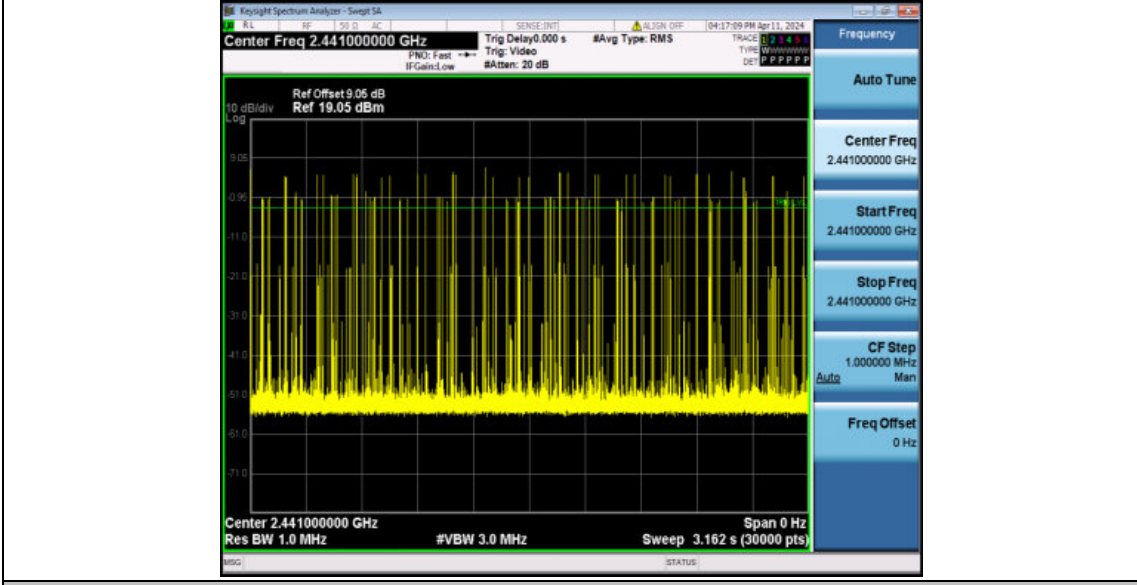


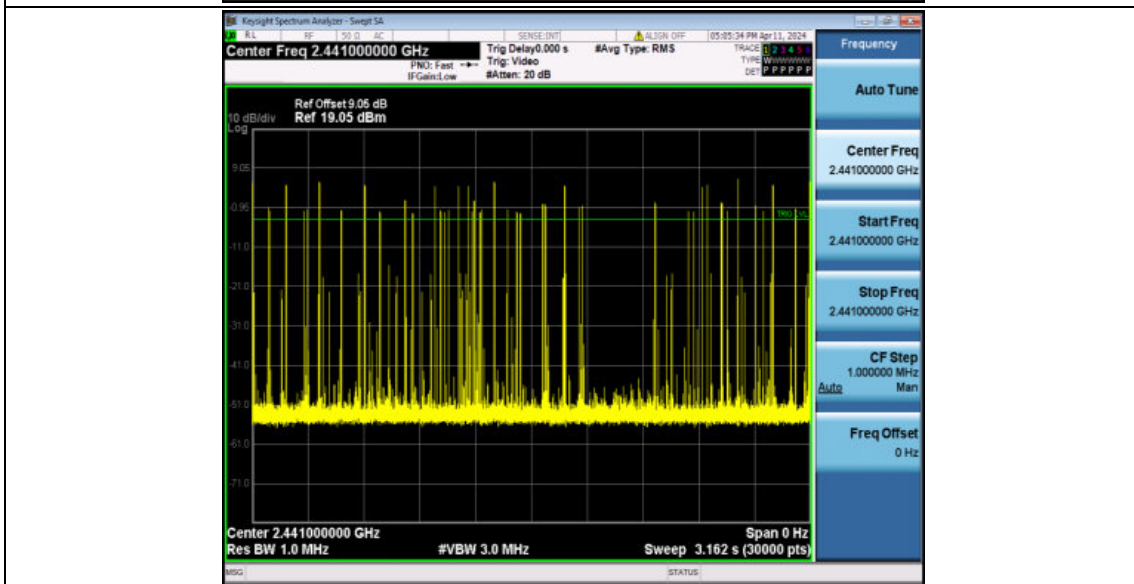
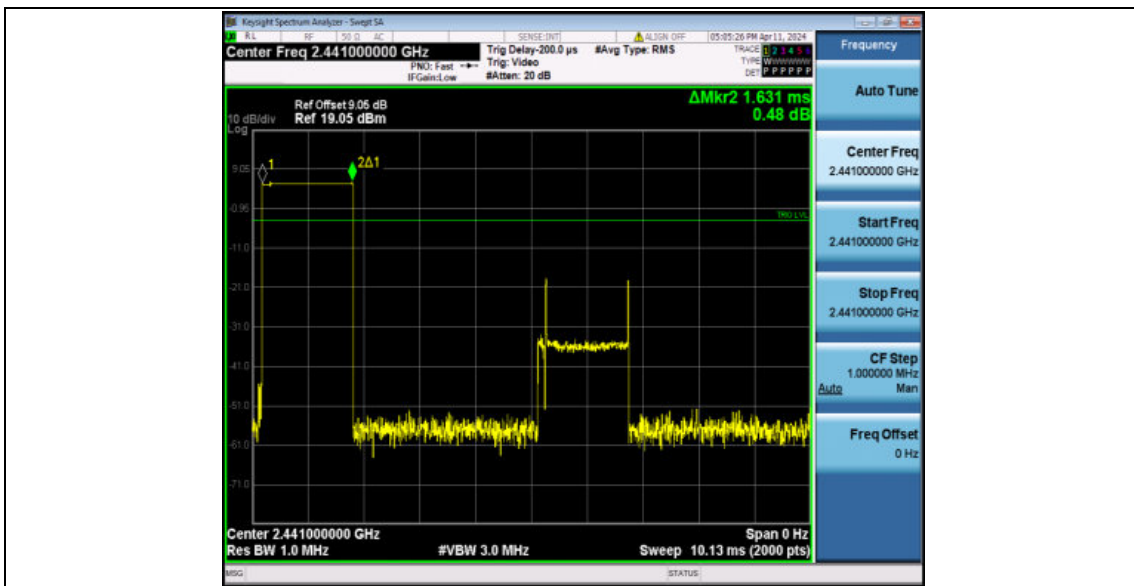


2DH1_Ant1_Hop

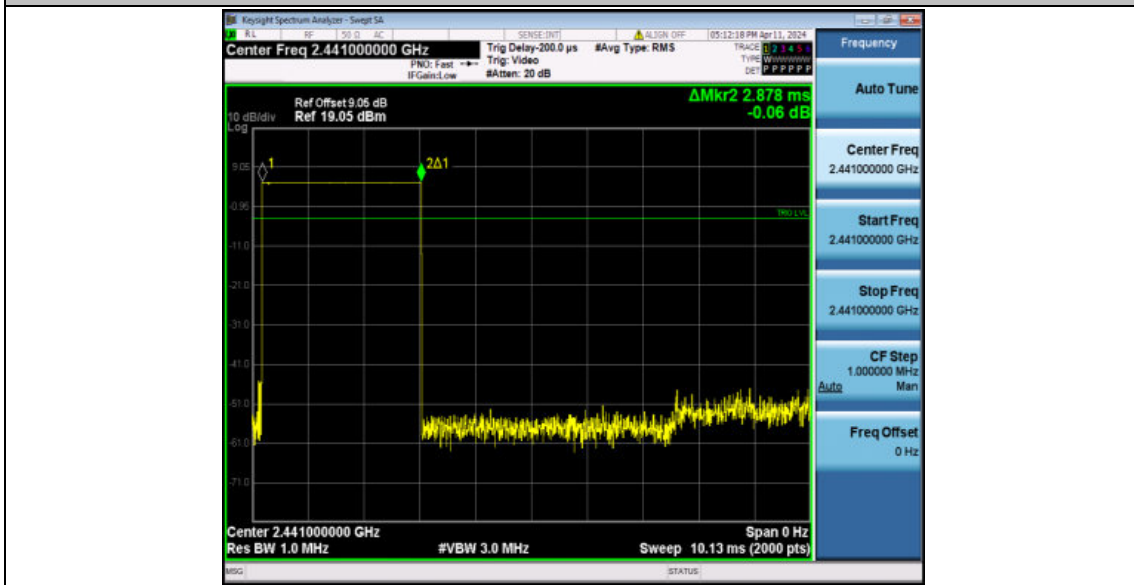


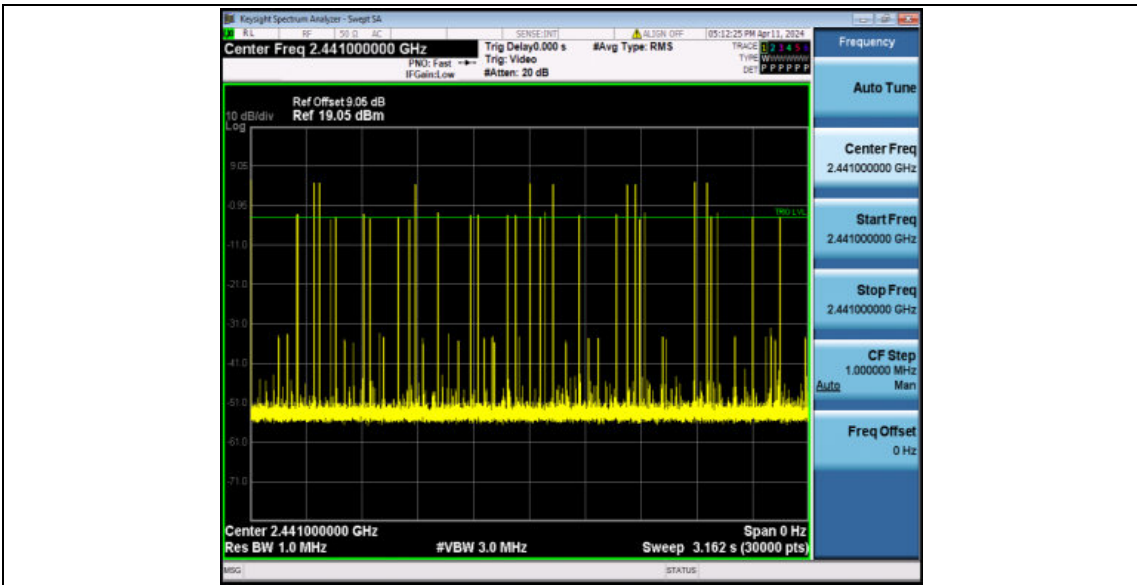
2DH3_Ant1_Hop



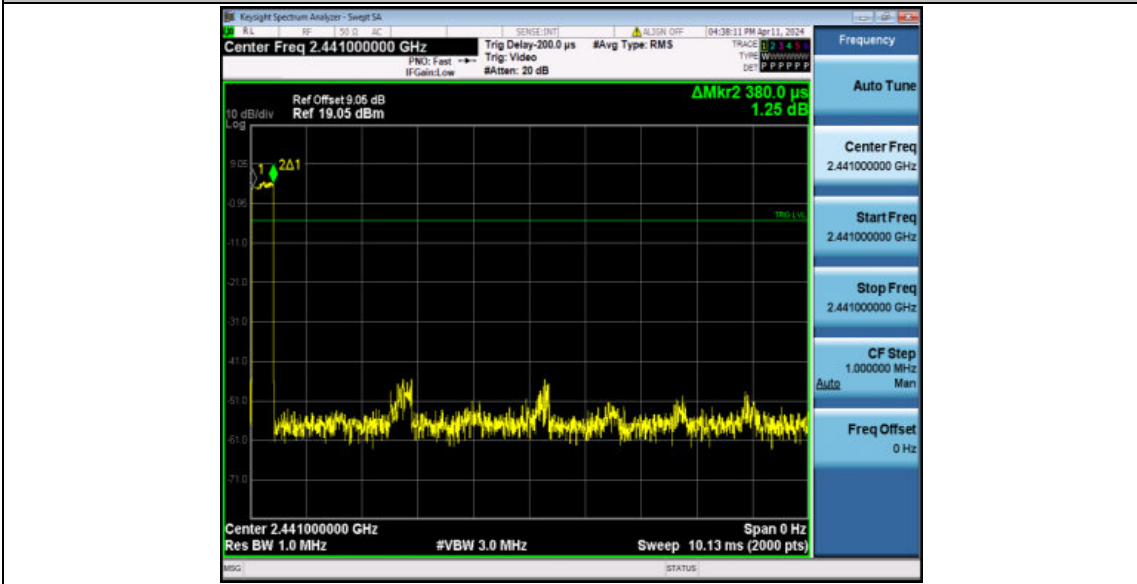


2DH5_Ant1_Hop

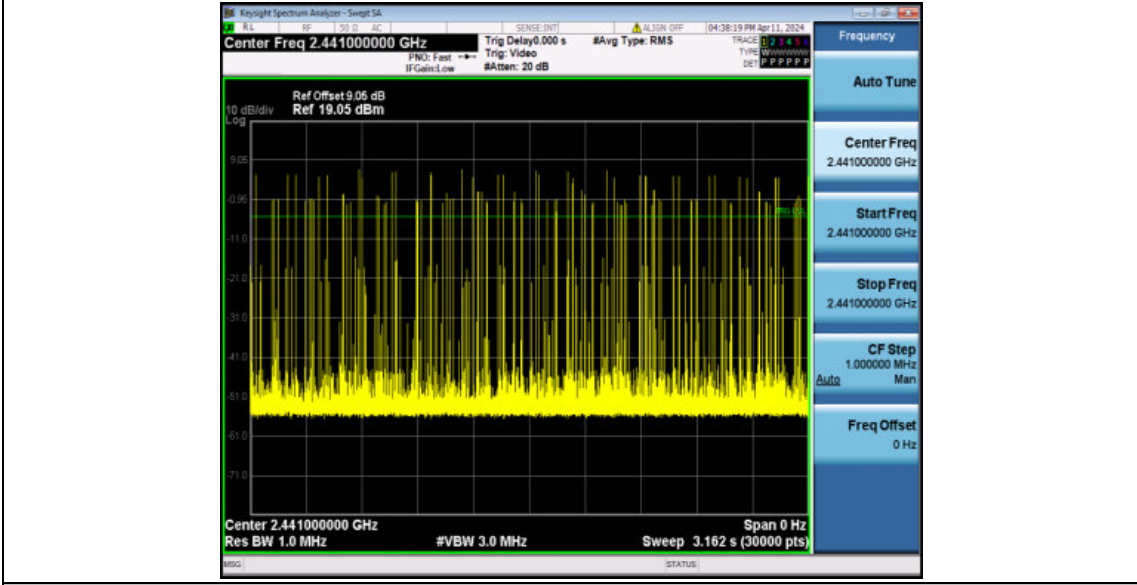


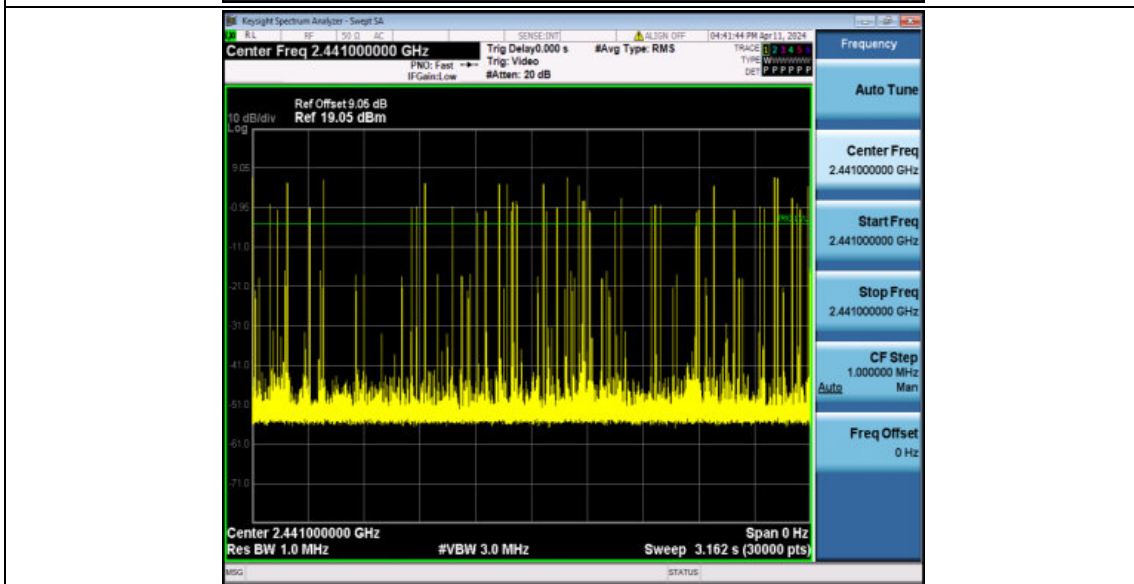


3DH1_Ant1_Hop

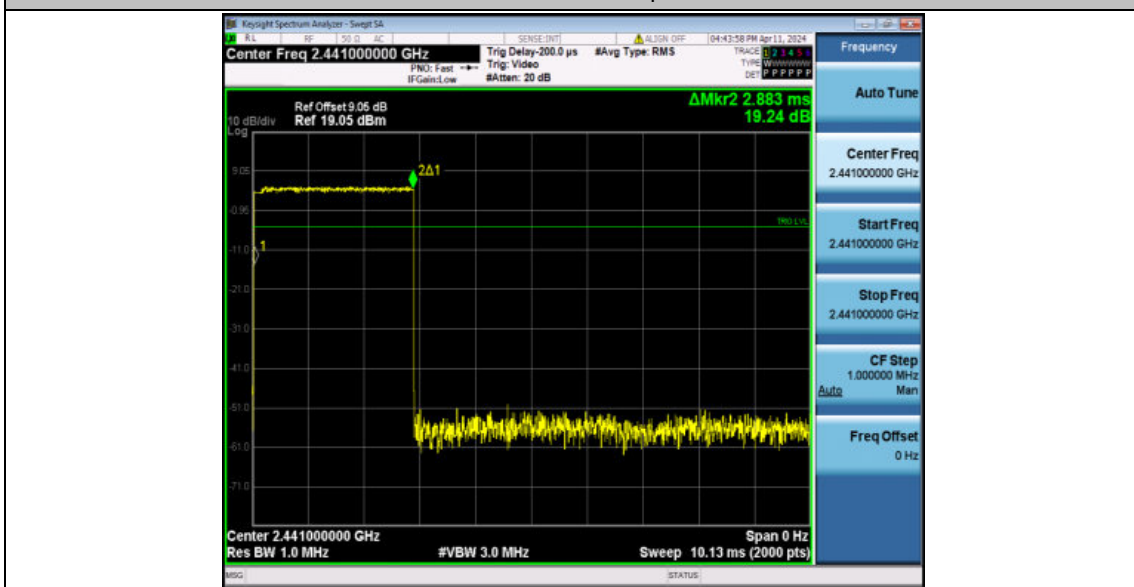


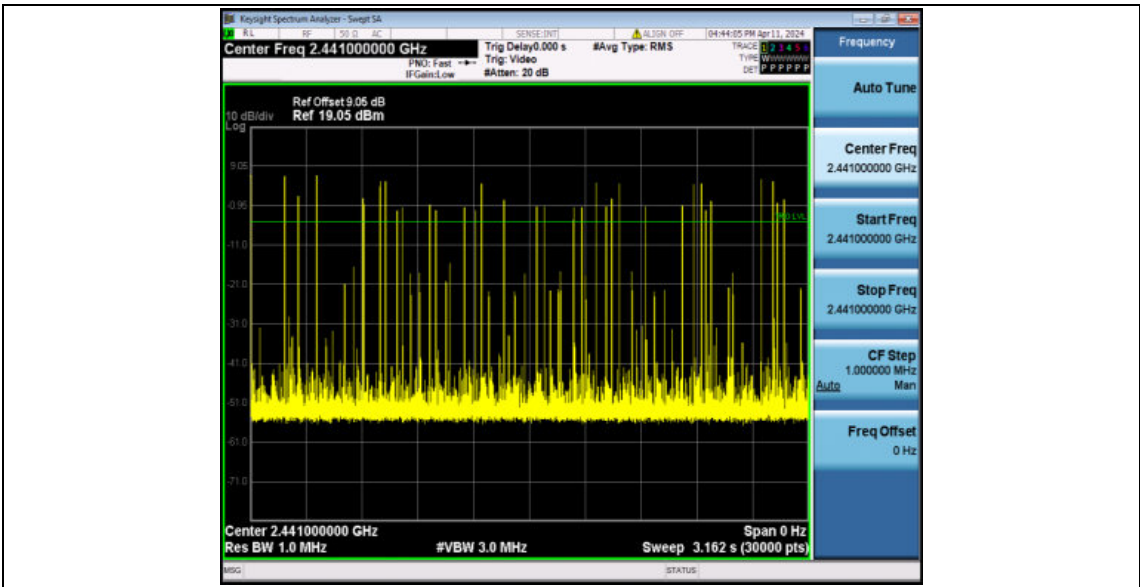
3DH3_Ant1_Hop





3DH5_Ant1_Hop



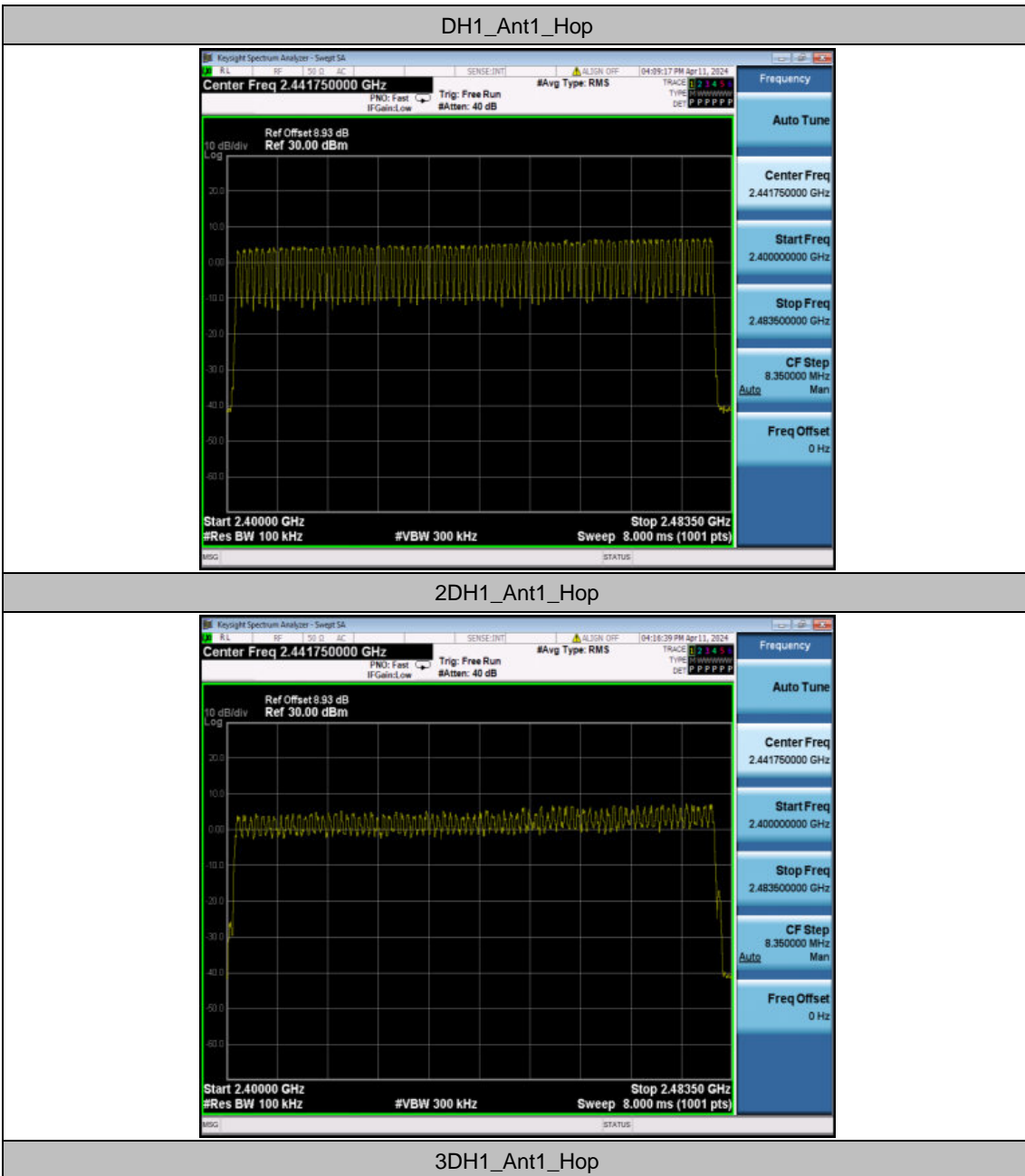


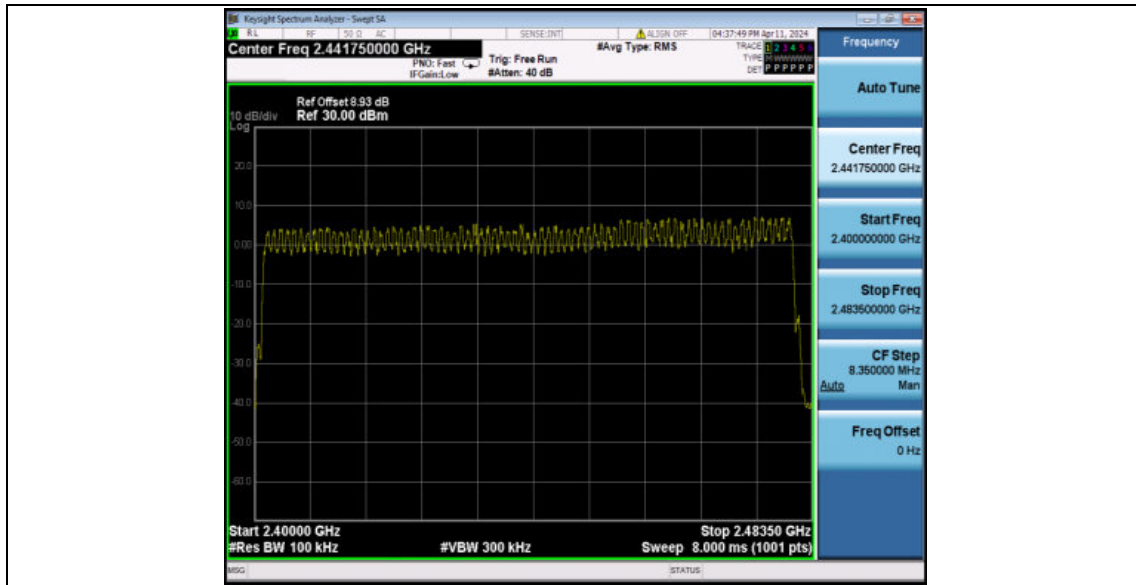
Appendix A.6: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs



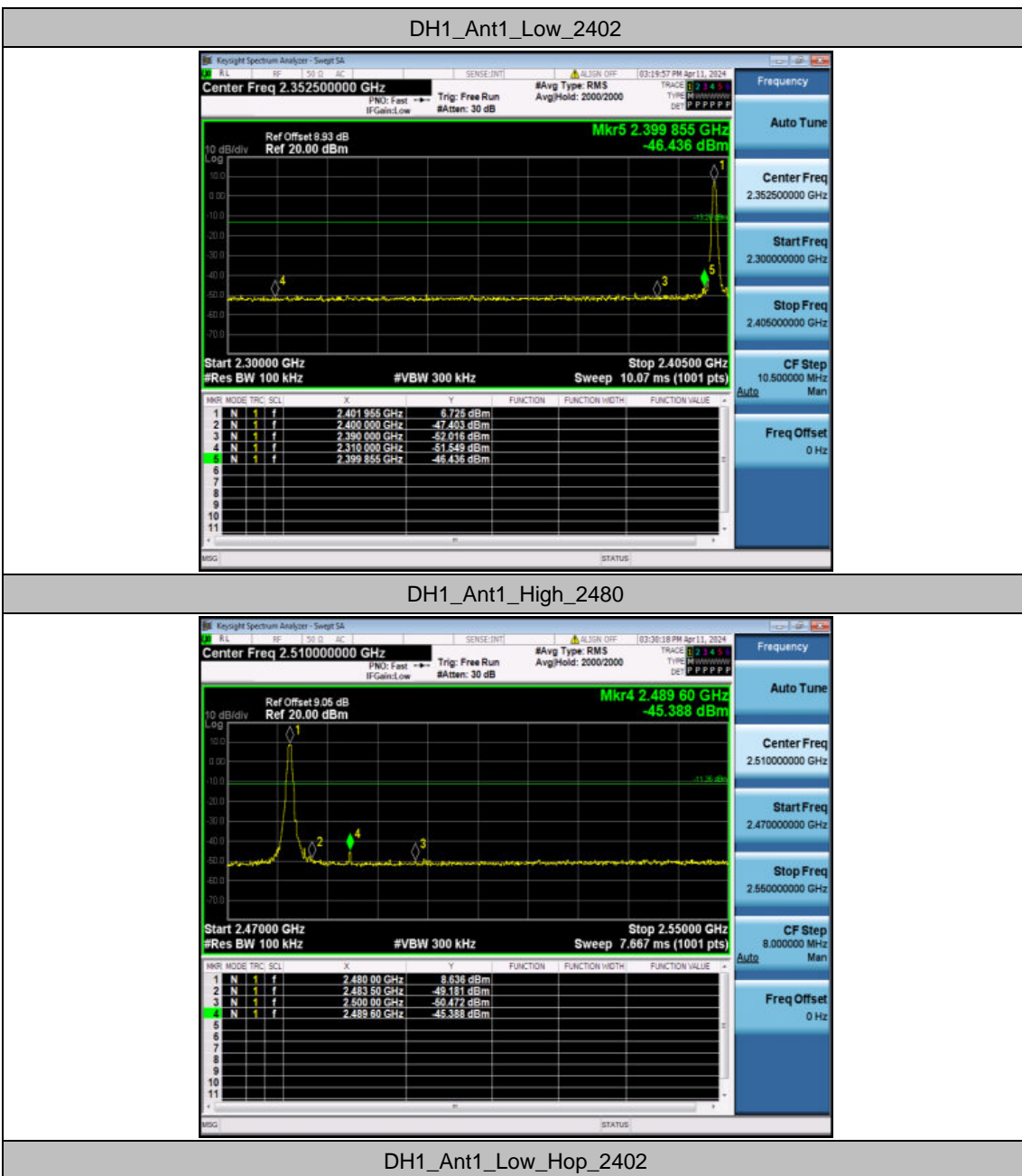


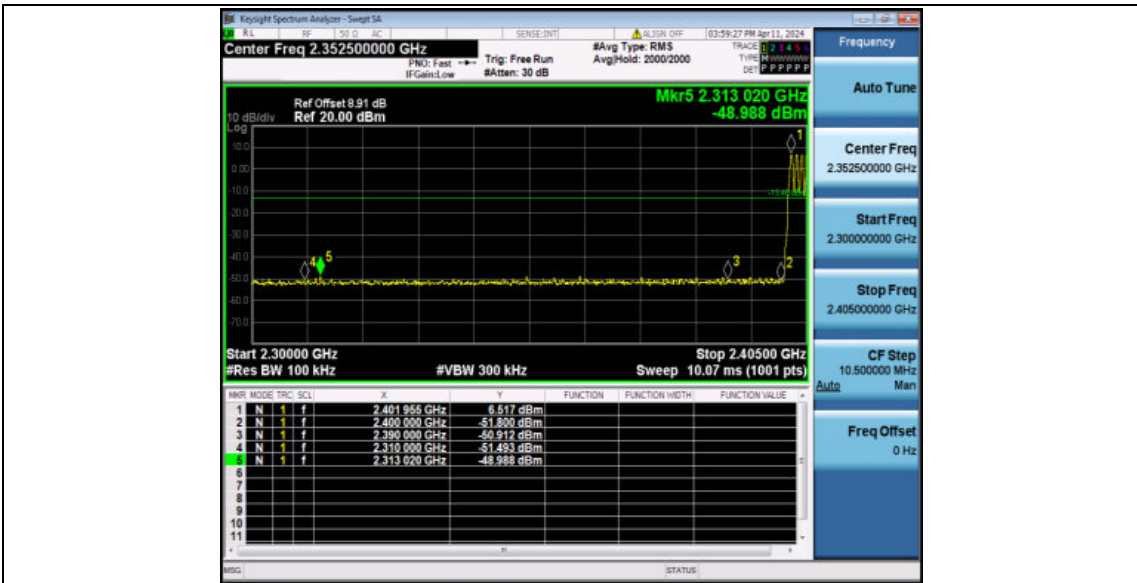
Appendix A.7: Band edge measurements

Test Result

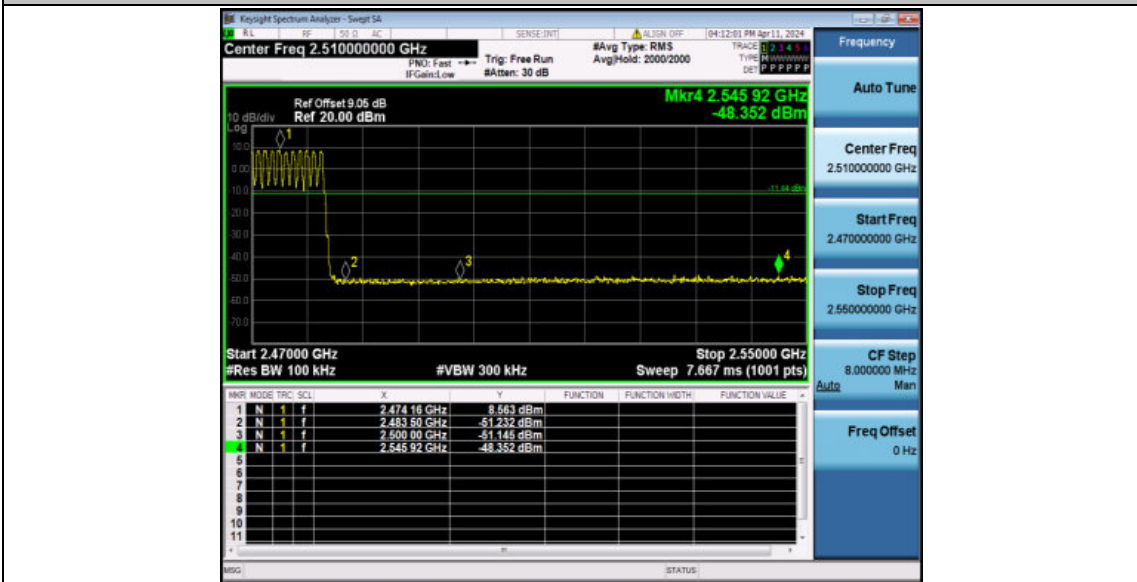
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	6.73	-46.44	≤-13.28	PASS
		High	2480	8.64	-45.39	≤-11.36	PASS
		Low	Hop_2402	6.52	-48.99	≤-13.48	PASS
		High	Hop_2480	8.56	-48.35	≤-11.44	PASS
2DH1	Ant1	Low	2402	4.23	-39.51	≤-15.77	PASS
		High	2480	4.48	-44.91	≤-15.52	PASS
		Low	Hop_2402	6.34	-49.1	≤-13.66	PASS
		High	Hop_2480	5.21	-48.36	≤-14.79	PASS
3DH1	Ant1	Low	2402	4.25	-43.01	≤-15.75	PASS
		High	2480	4.43	-43.55	≤-15.57	PASS
		Low	Hop_2402	3.71	-49.17	≤-16.29	PASS
		High	Hop_2480	6.20	-48.65	≤-13.8	PASS

Test Graphs

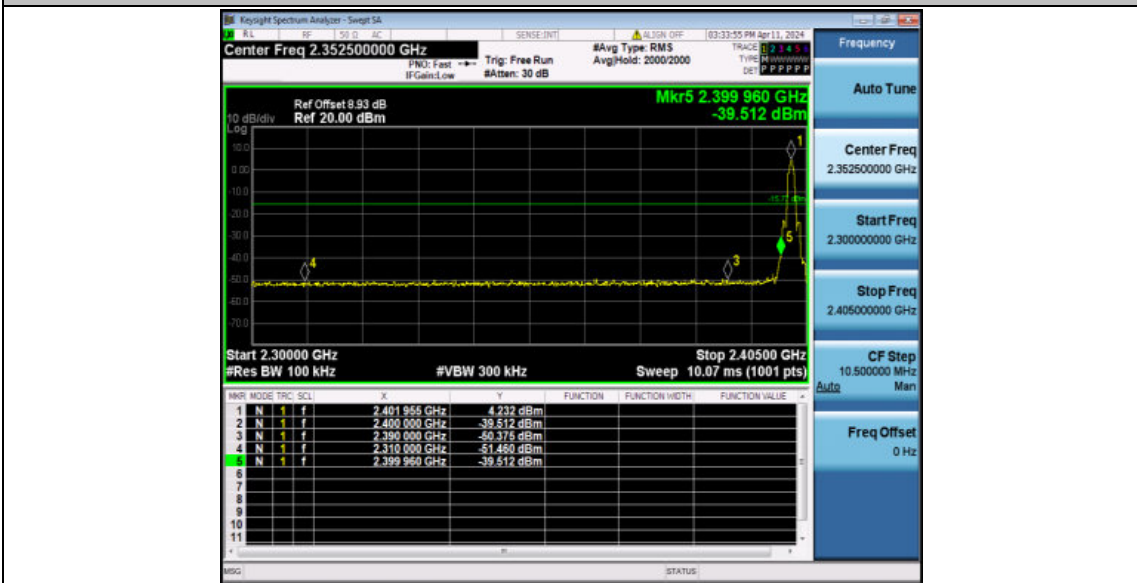




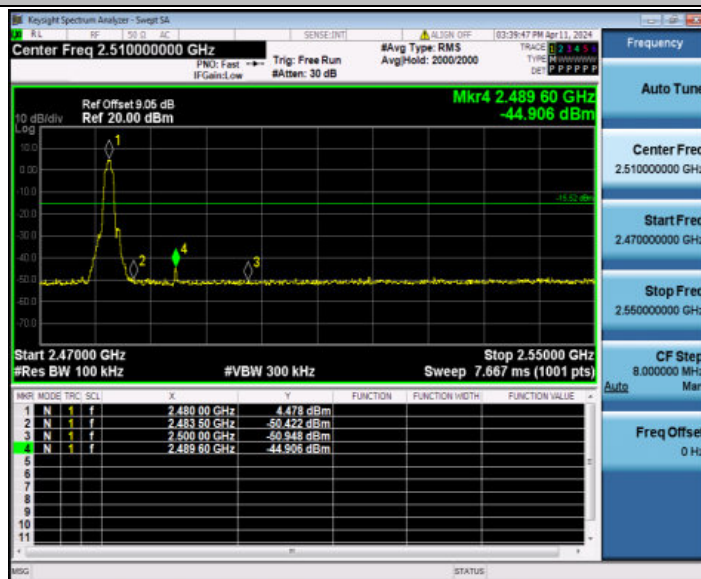
DH1_Ant1_High_Hop_2480



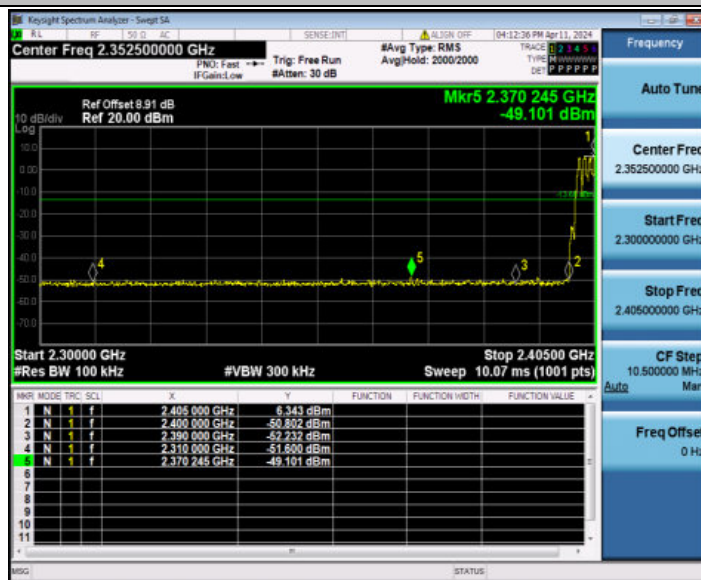
2DH1_Ant1_Low_2402



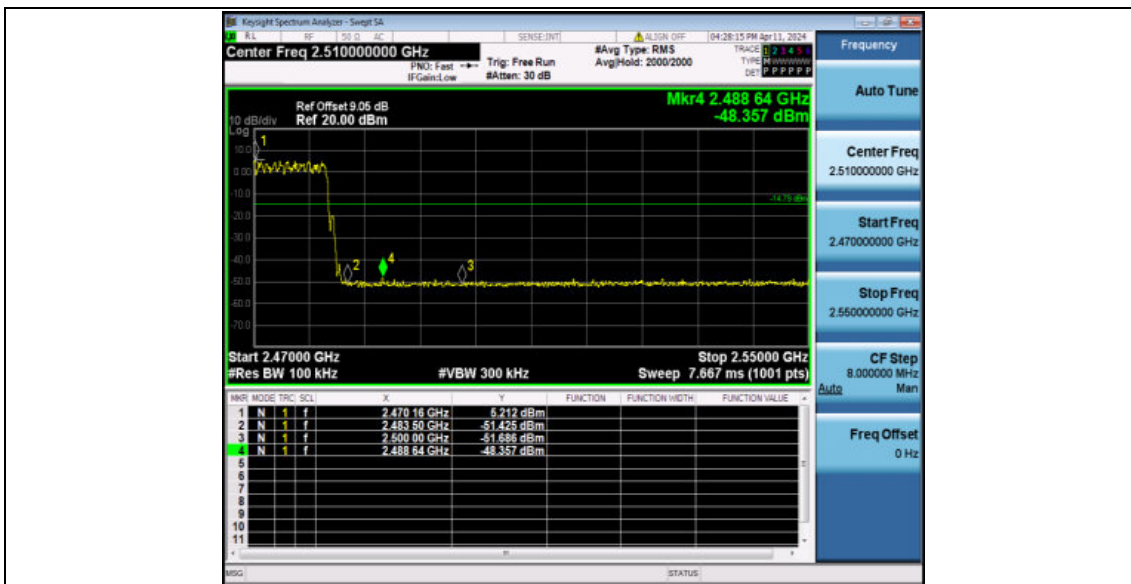
2DH1_Ant1_High_2480



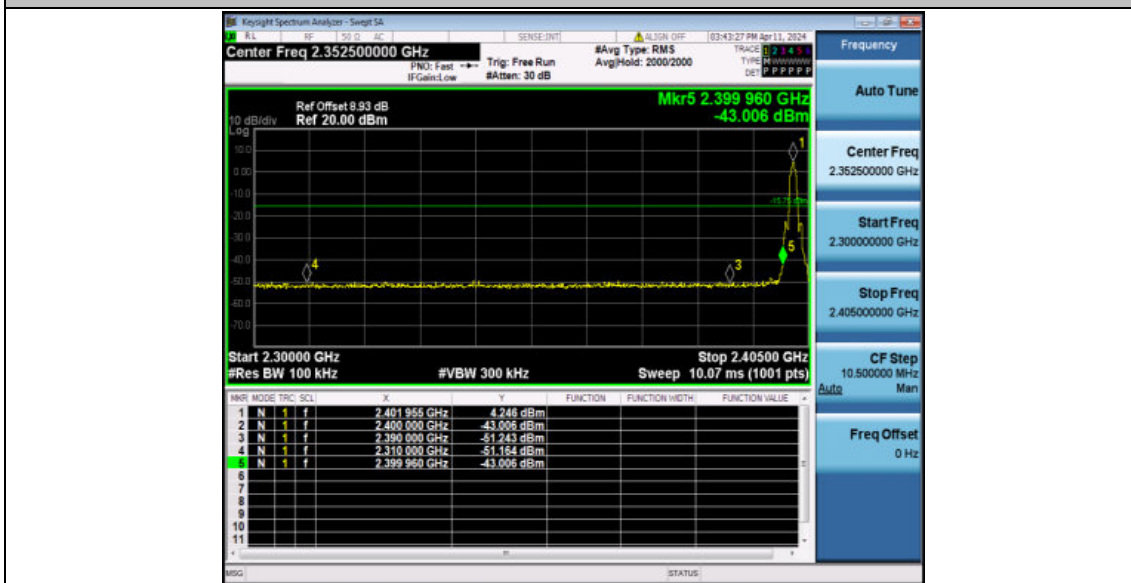
2DH1_Ant1_Low_Hop_2402



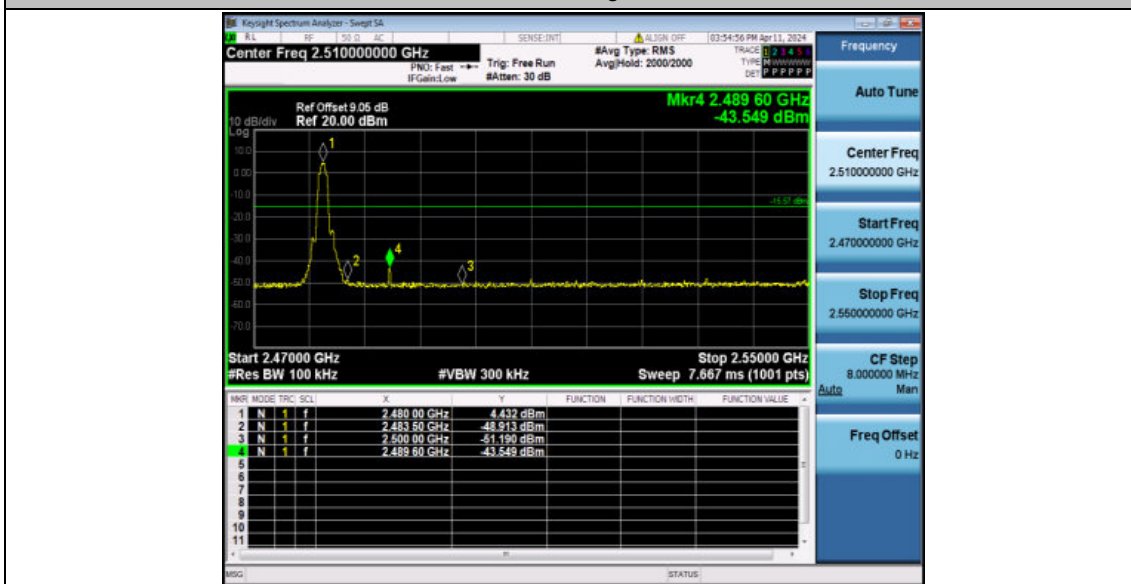
2DH1_Ant1_High_Hop_2480



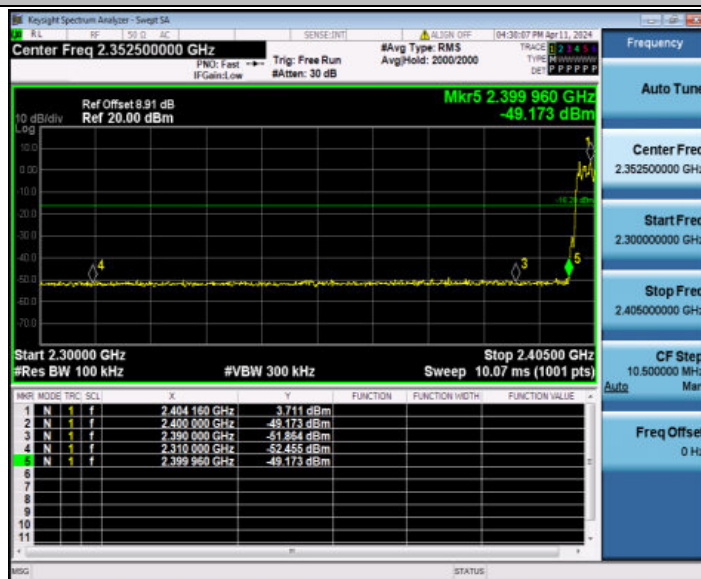
3DH1_Ant1_Low_2402



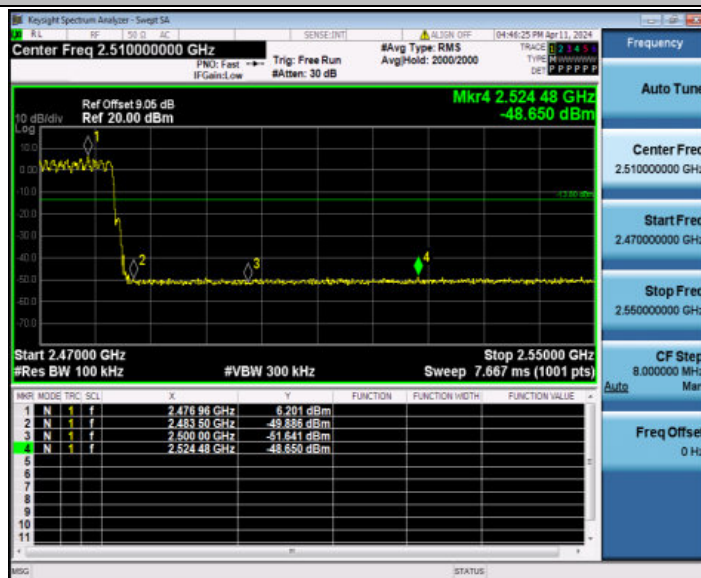
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

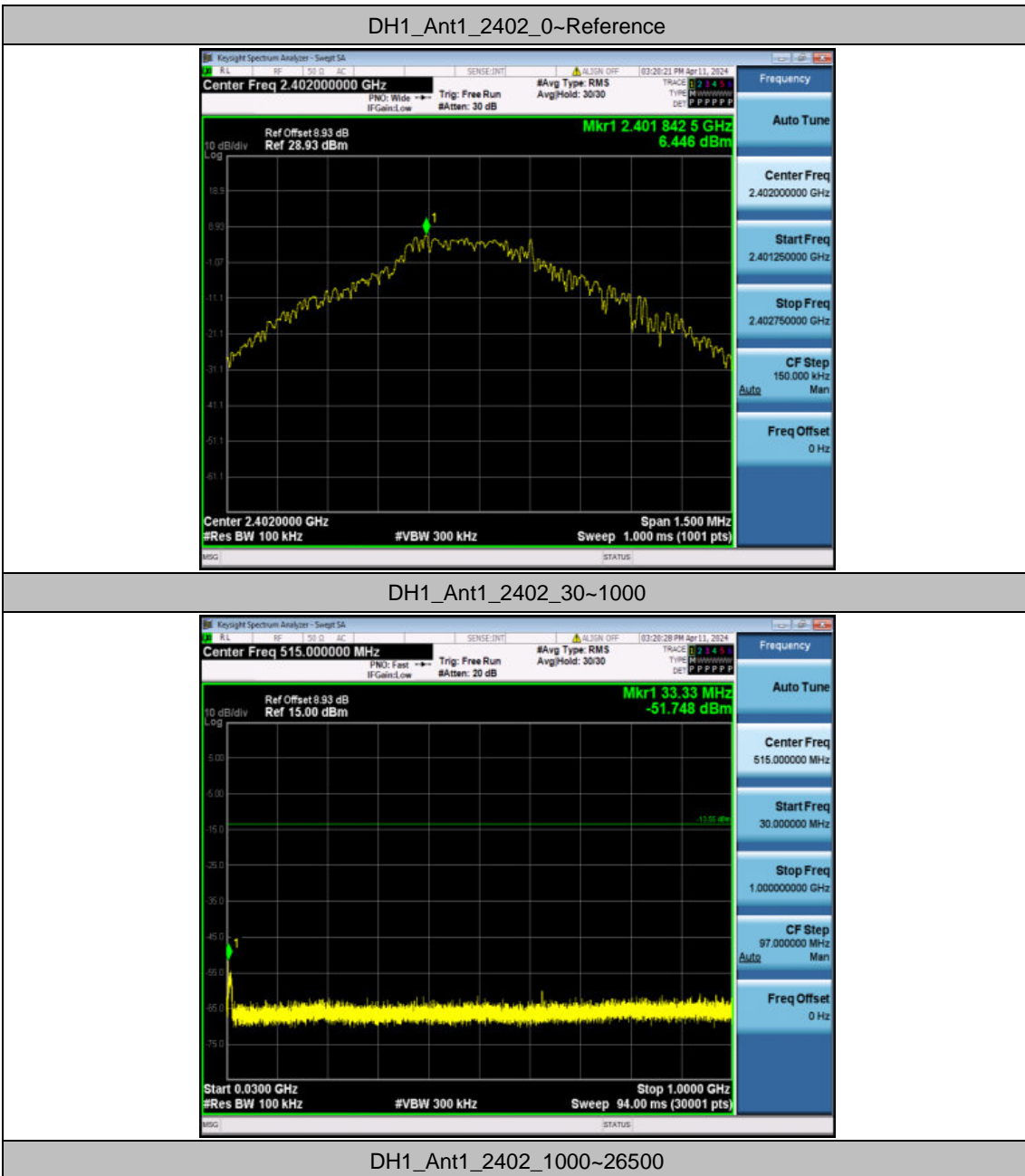


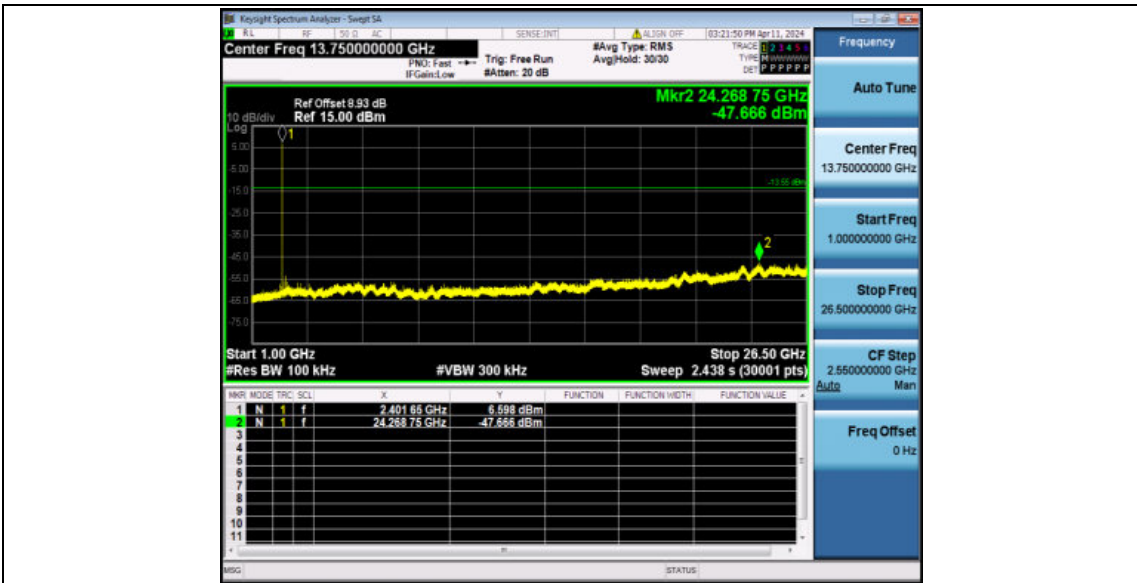
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	6.45	6.45	---	PASS
			30~1000	6.45	-51.75	≤-13.55	PASS
			1000~26500	6.45	-47.67	≤-13.55	PASS
		2441	Reference	7.57	7.57	---	PASS
			30~1000	7.57	-53.91	≤-12.43	PASS
			1000~26500	7.57	-48.26	≤-12.43	PASS
		2480	Reference	8.48	8.48	---	PASS
			30~1000	8.48	-55.8	≤-11.52	PASS
			1000~26500	8.48	-47.76	≤-11.52	PASS
2DH1	Ant1	2402	Reference	4.00	4.00	---	PASS
			30~1000	4.00	-58.46	≤-16	PASS
			1000~26500	4.00	-48.38	≤-16	PASS
		2441	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-56.57	≤-16.47	PASS
			1000~26500	3.53	-47.89	≤-16.47	PASS
		2480	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-55.49	≤-15.83	PASS
			1000~26500	4.17	-47.62	≤-15.83	PASS
3DH1	Ant1	2402	Reference	4.06	4.06	---	PASS
			30~1000	4.06	-55.61	≤-15.94	PASS
			1000~26500	4.06	-47.64	≤-15.94	PASS
		2441	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-58.37	≤-16.47	PASS
			1000~26500	3.53	-47.74	≤-16.47	PASS
		2480	Reference	4.23	4.23	---	PASS
			30~1000	4.23	-60.83	≤-15.77	PASS
			1000~26500	4.23	-48.27	≤-15.77	PASS

Test Graphs

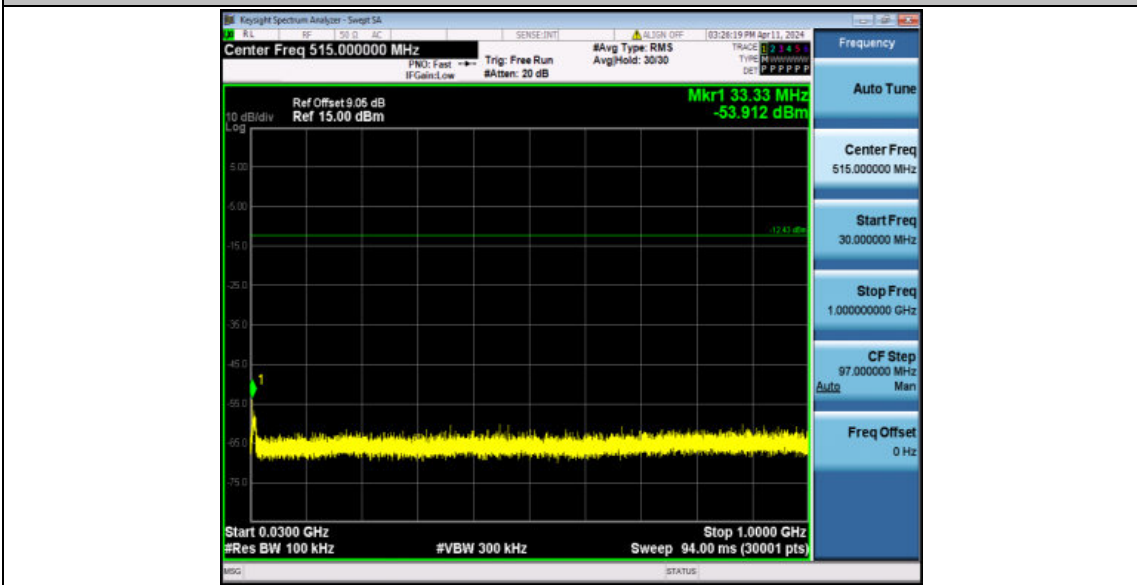




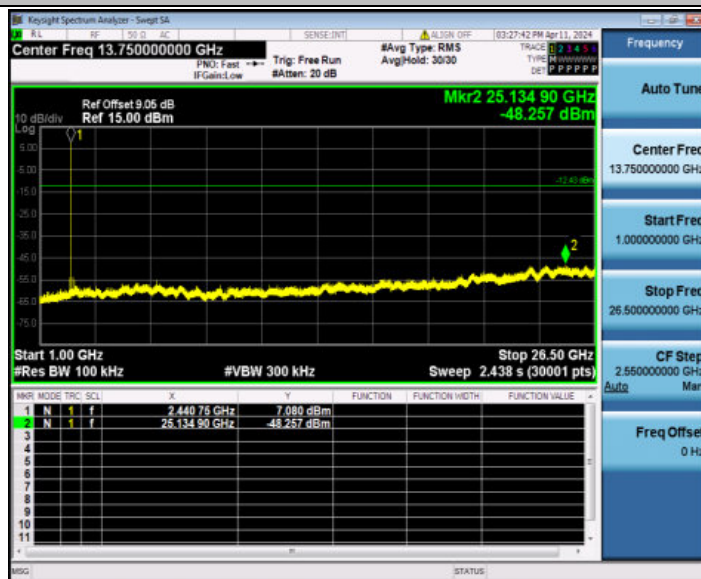
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



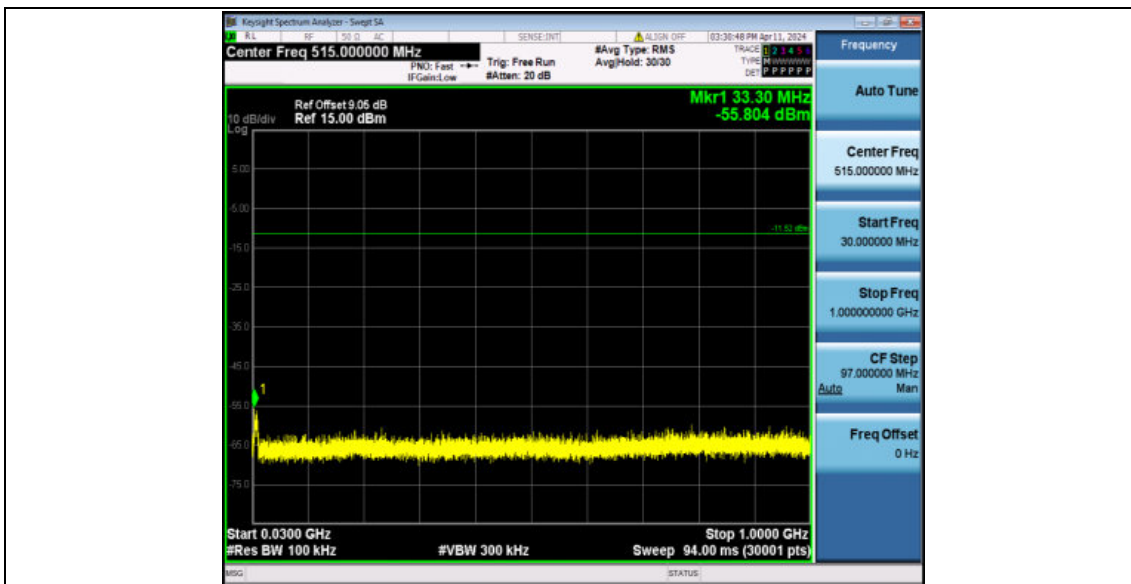
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



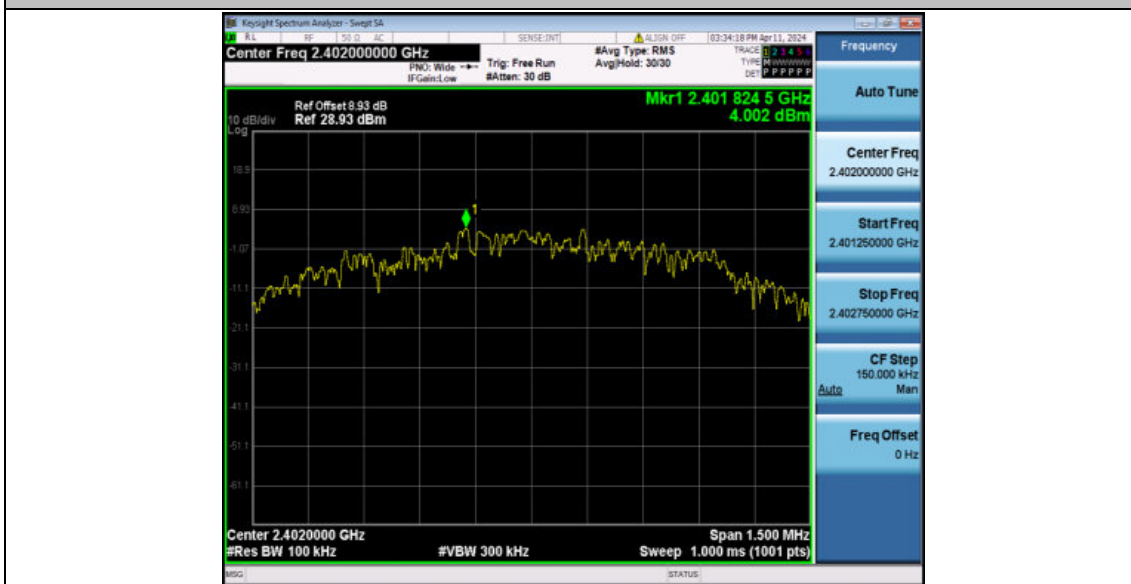
DH1_Ant1_2480_30~1000



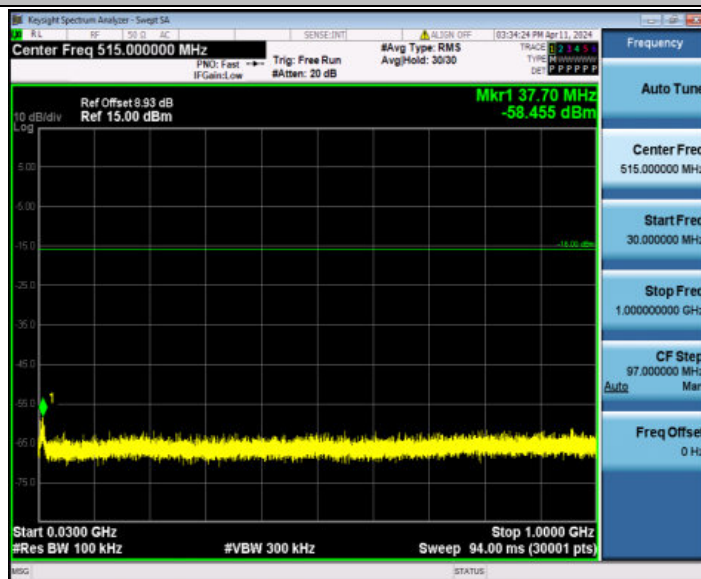
DH1_Ant1_2480_1000~26500



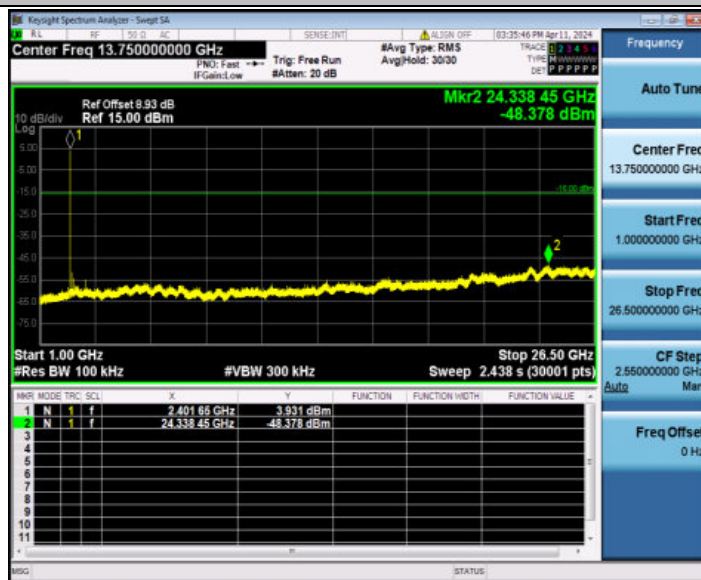
2DH1_Ant1_2402_0~Reference



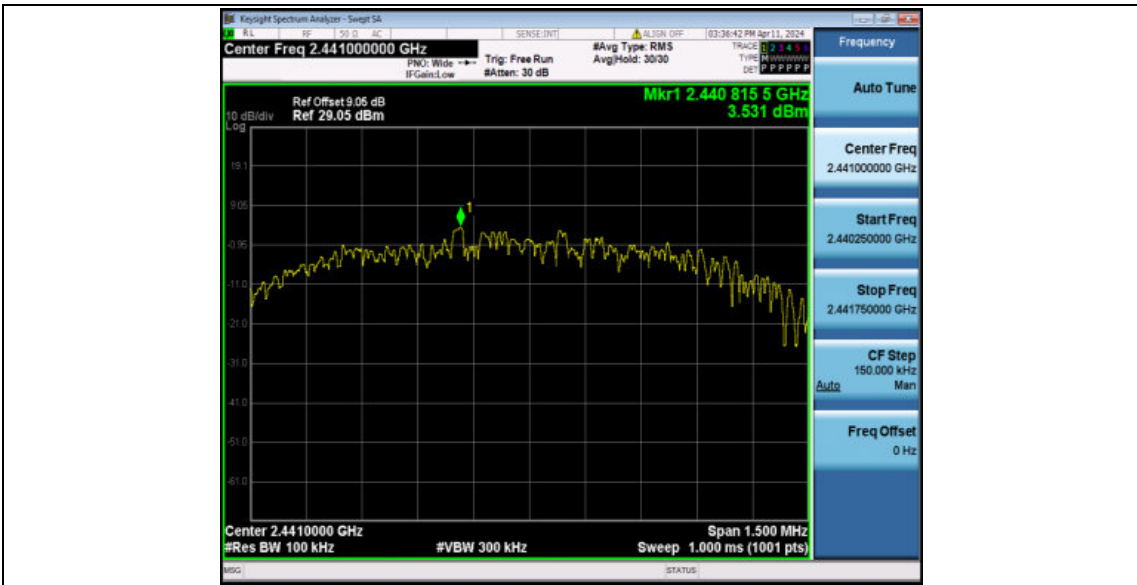
2DH1_Ant1_2402_30~1000



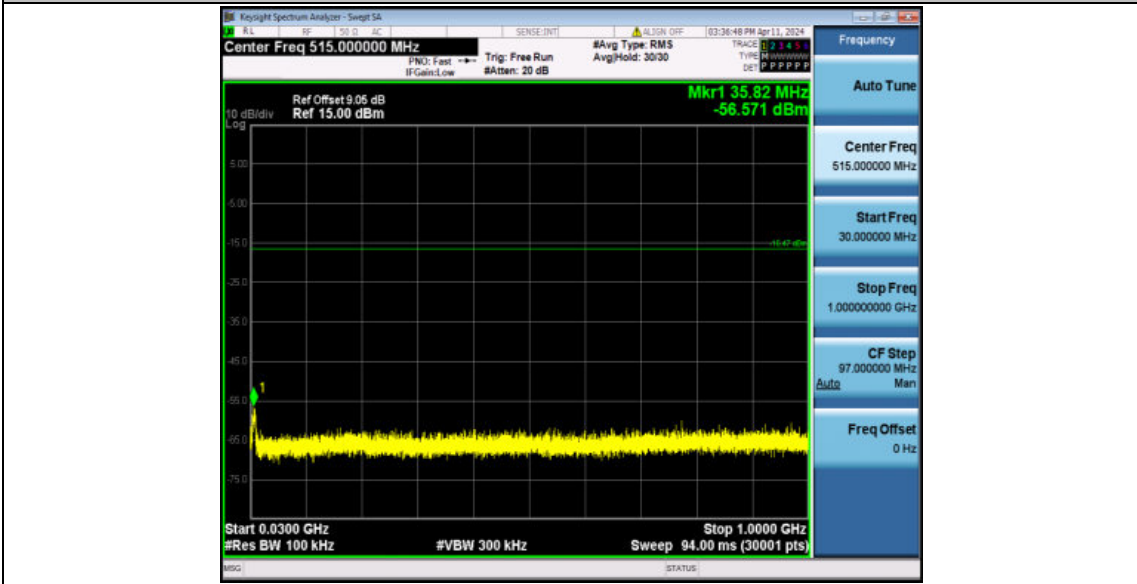
2DH1_Ant1_2402_1000~26500



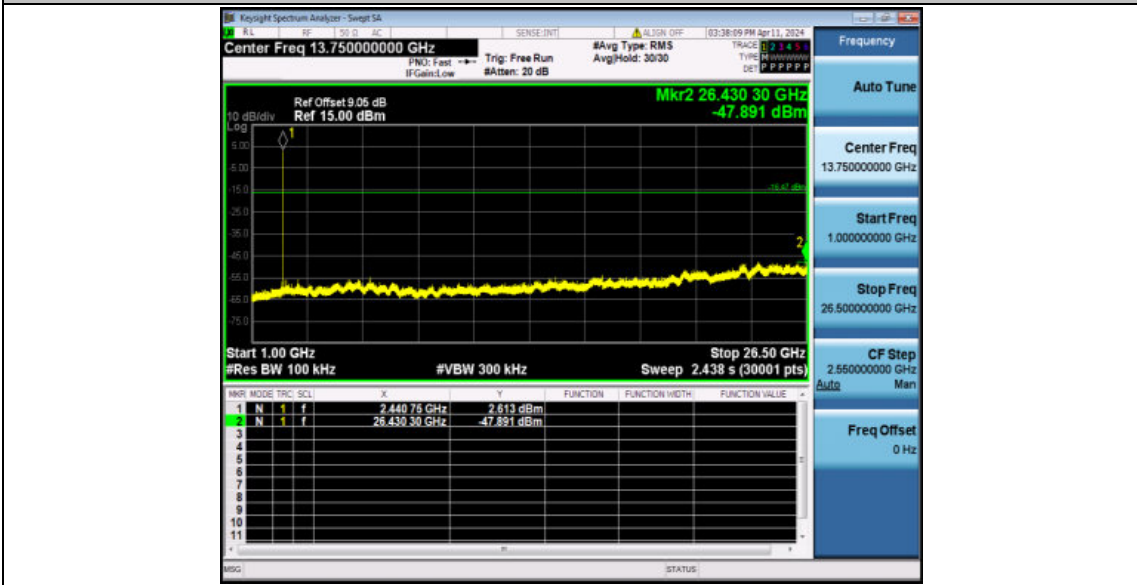
2DH1_Ant1_2441_0~Reference



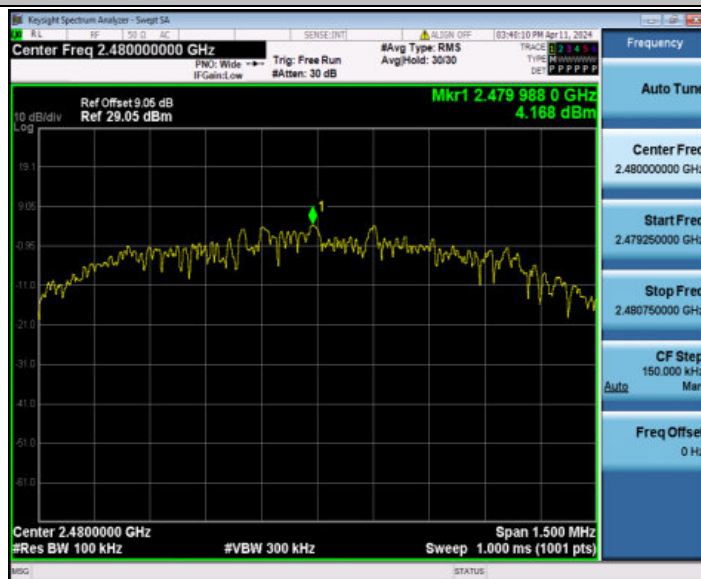
2DH1_Ant1_2441_30~100



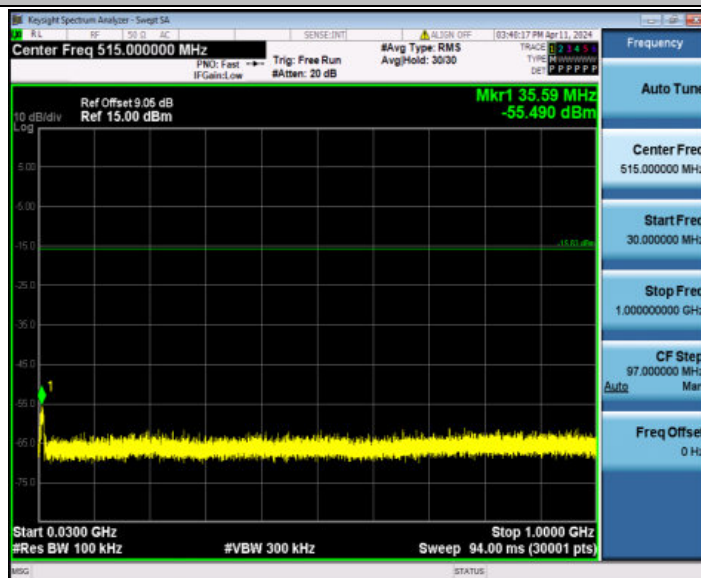
2DH1_Ant1_2441_1000~26500



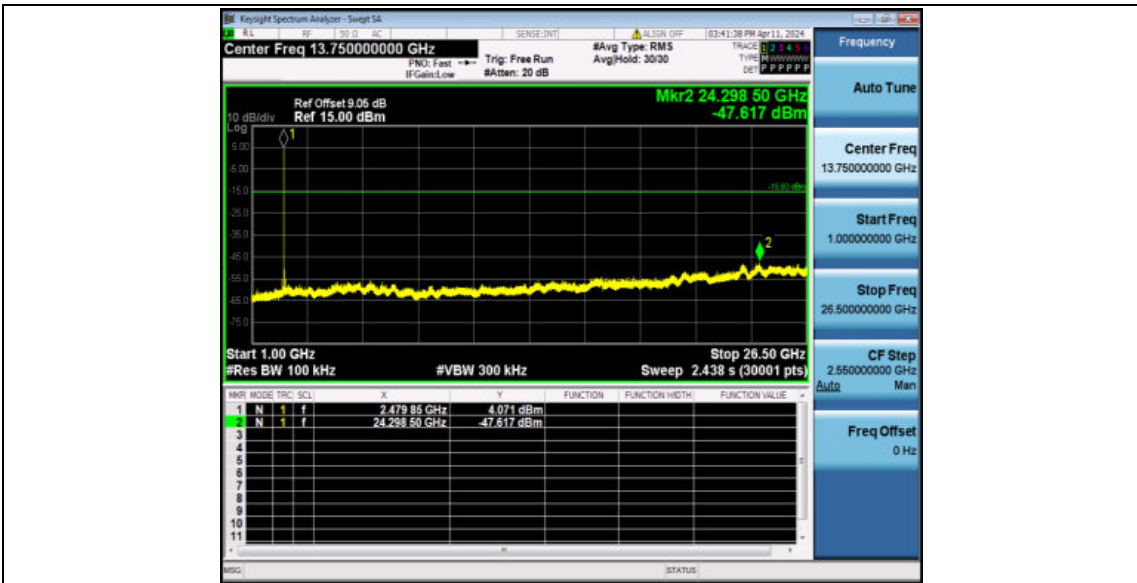
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



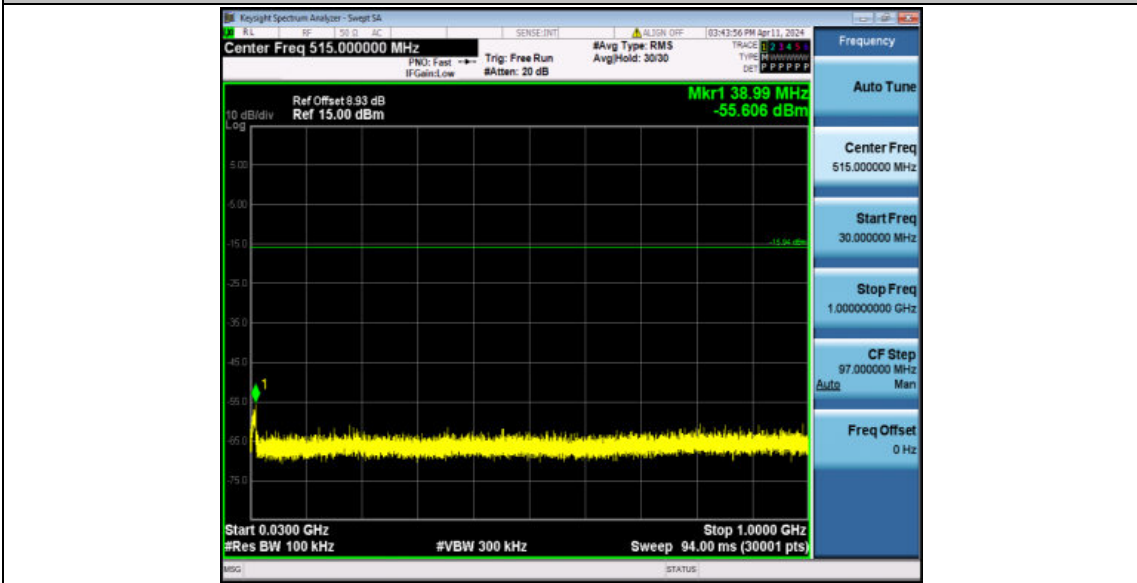
2DH1_Ant1_2480_1000~26500



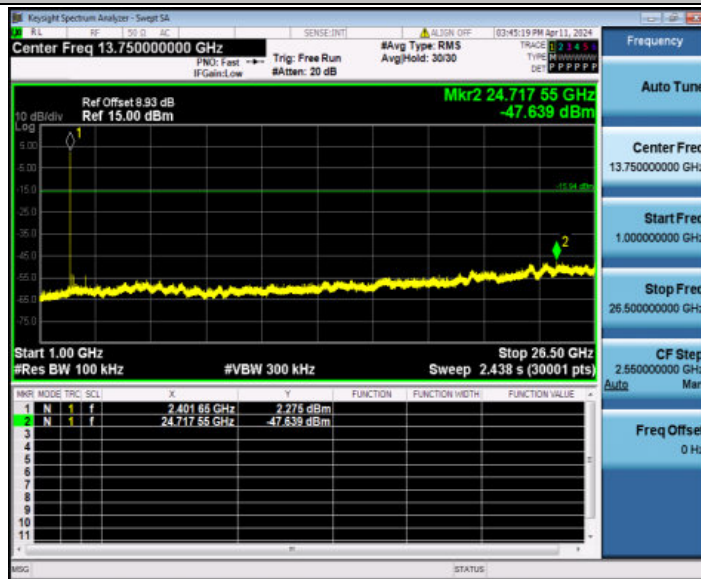
3DH1_Ant1_2402_0~Reference



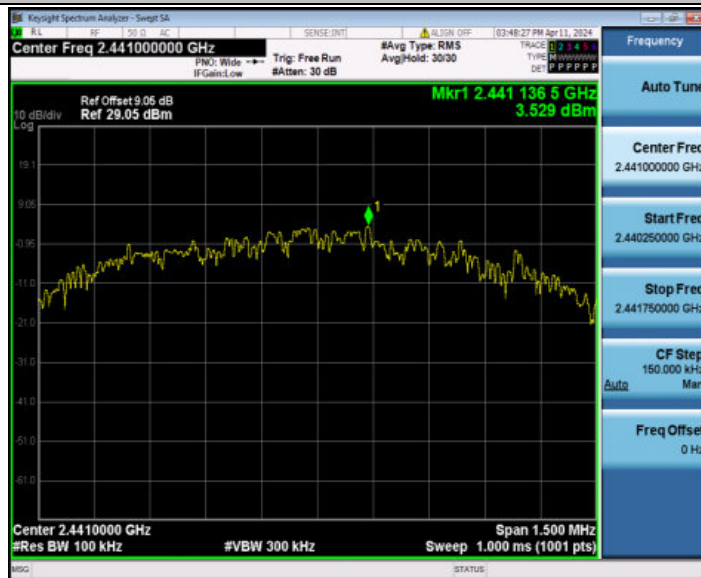
3DH1_Ant1_2402_30~1000



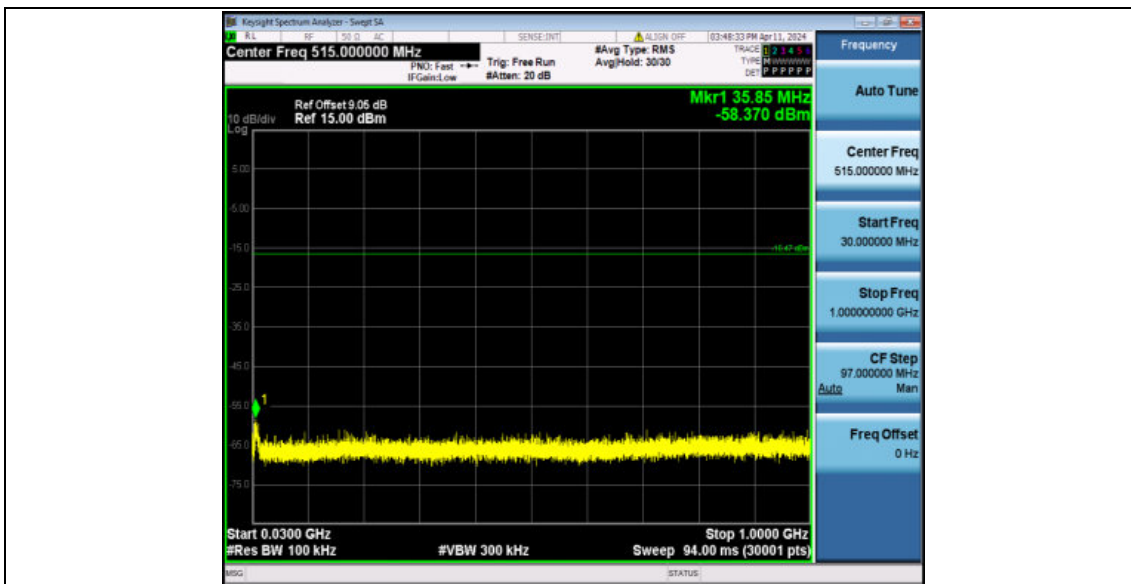
3DH1_Ant1_2402_1000~26500



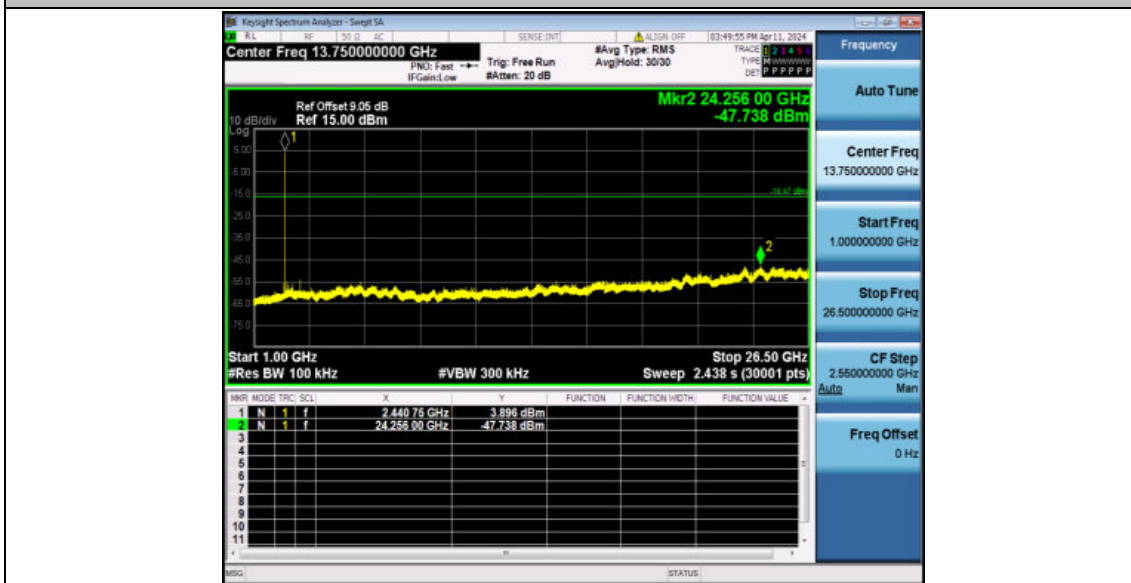
3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



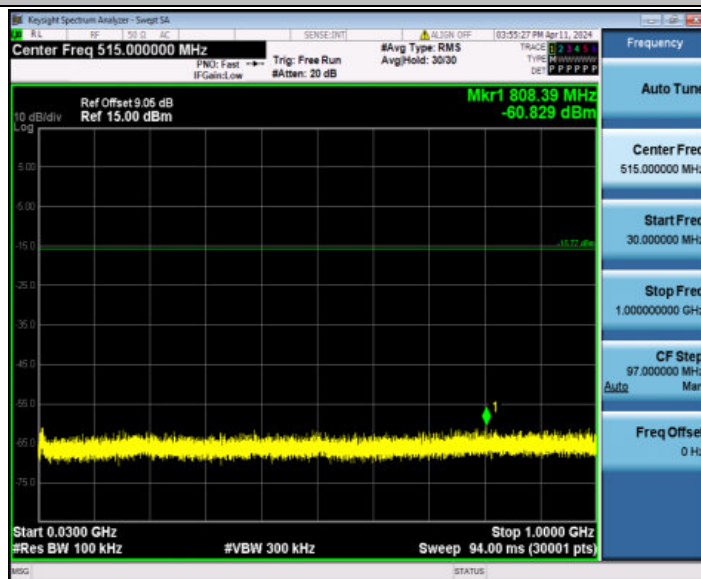
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

