

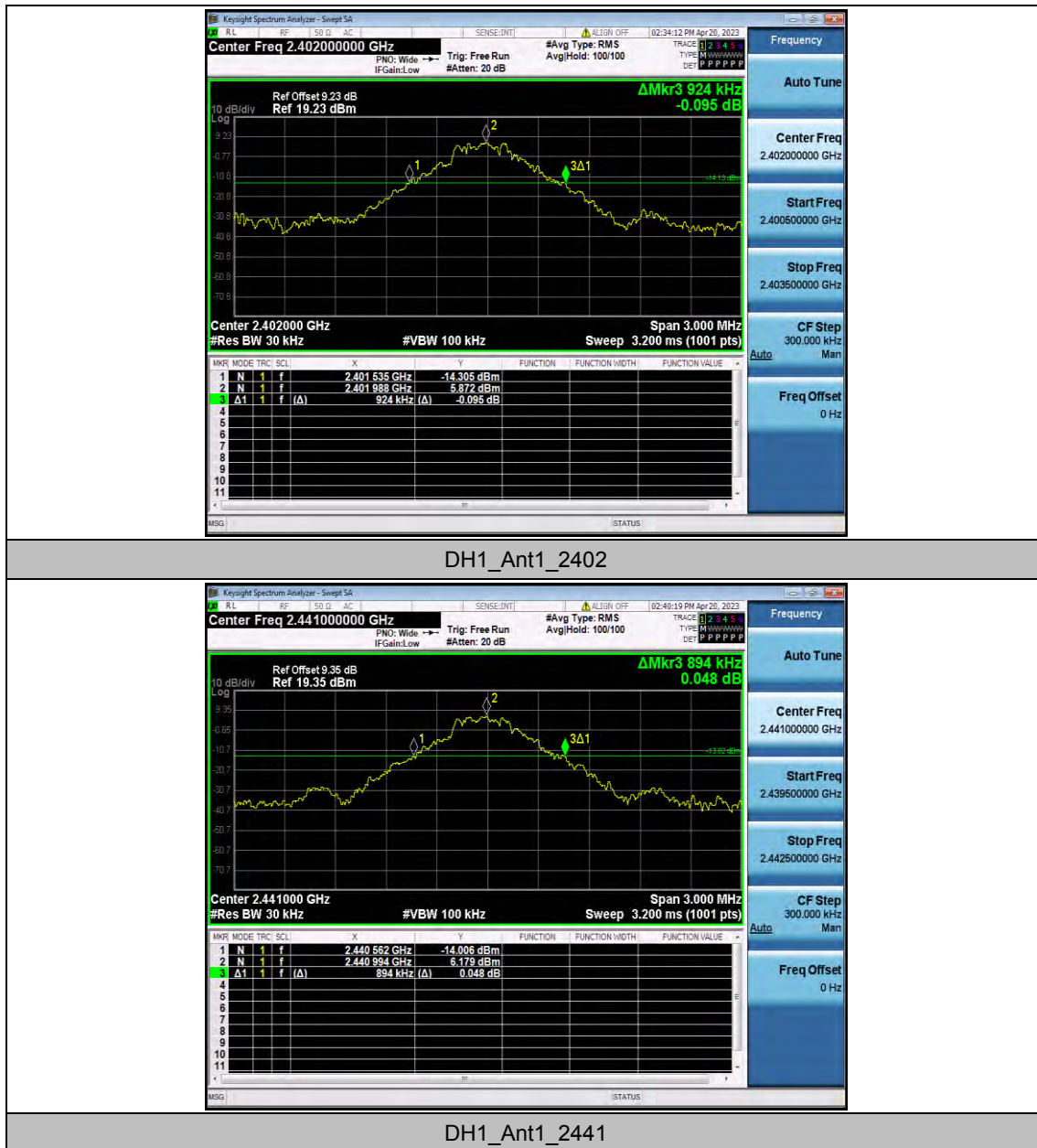
Case No. : <u>GTS20230302010-1-9</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.4.18</u>	Test Engineer: <u>Jenny zeng</u>

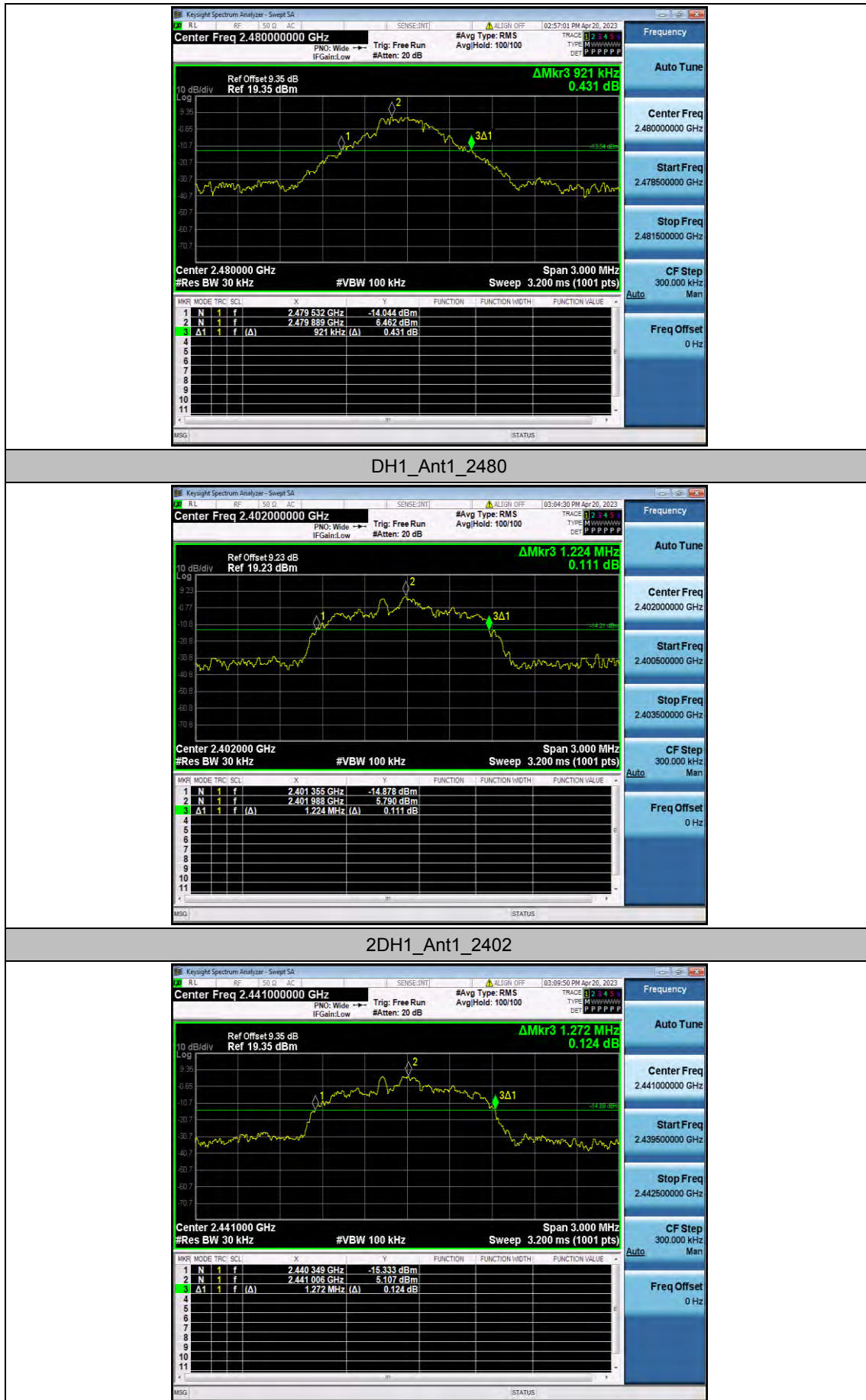
Appendix A.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.924	2401.535	2402.459	---	---
		2441	0.894	2440.562	2441.456	---	---
		2480	0.921	2479.532	2480.453	---	---
2DH1	Ant1	2402	1.224	2401.355	2402.579	---	---
		2441	1.272	2440.349	2441.621	---	---
		2480	1.263	2479.355	2480.618	---	---
3DH1	Ant1	2402	1.221	2401.385	2402.606	---	---
		2441	1.221	2440.391	2441.612	---	---
		2480	1.227	2479.385	2480.612	---	---

Test Graphs





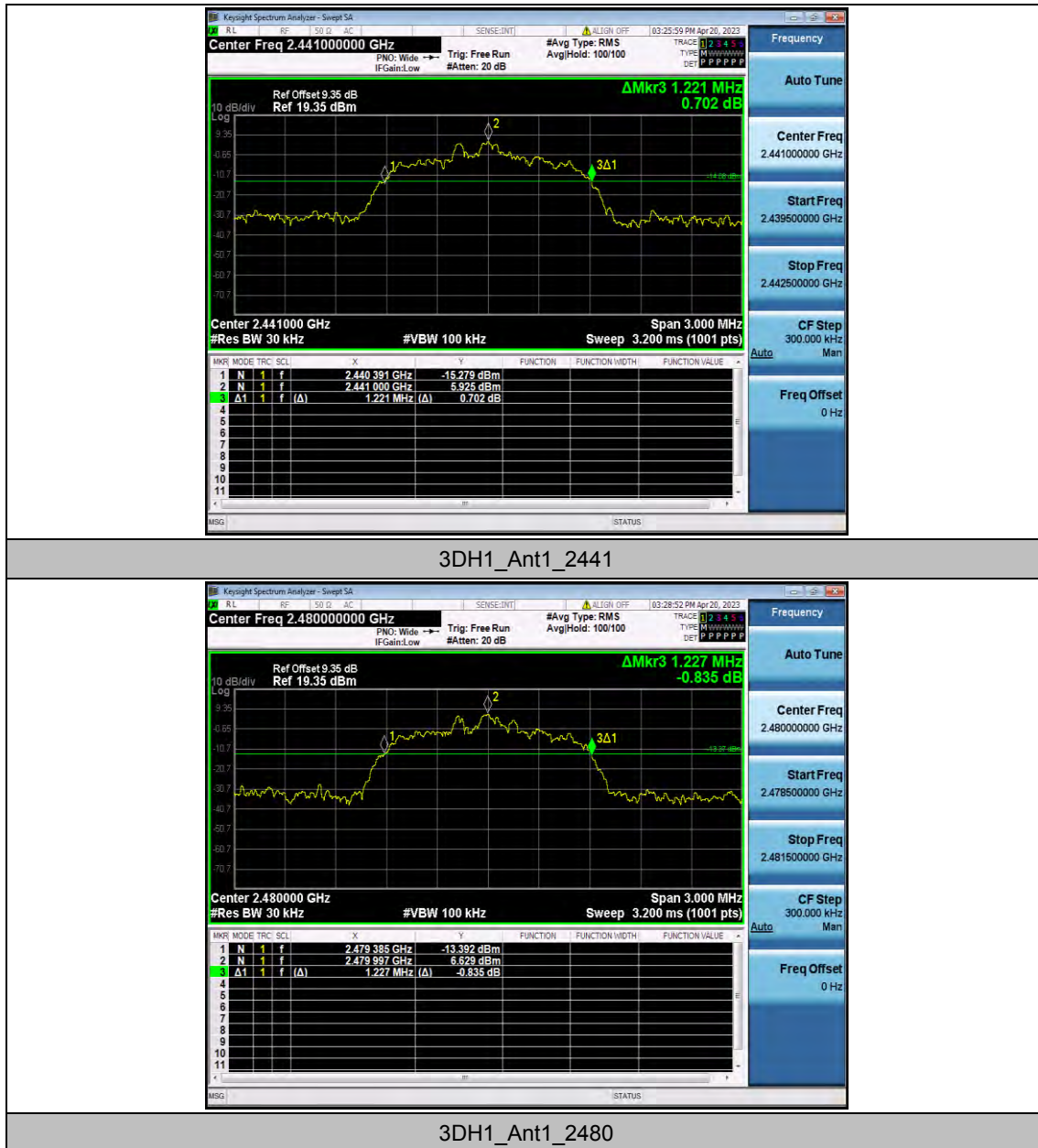
2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3D H1_Ant1_2441

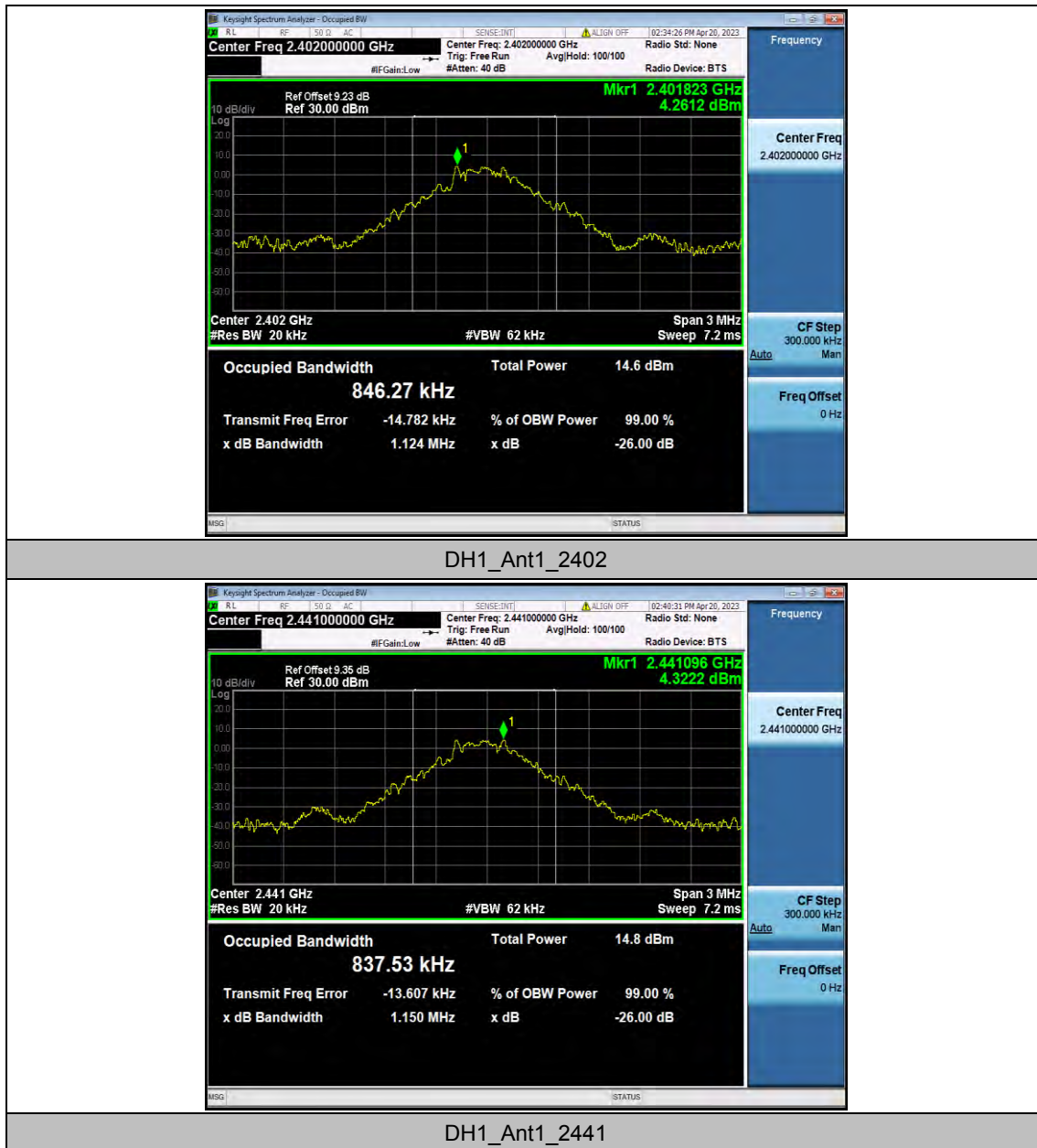
3D H1_Ant1_2480

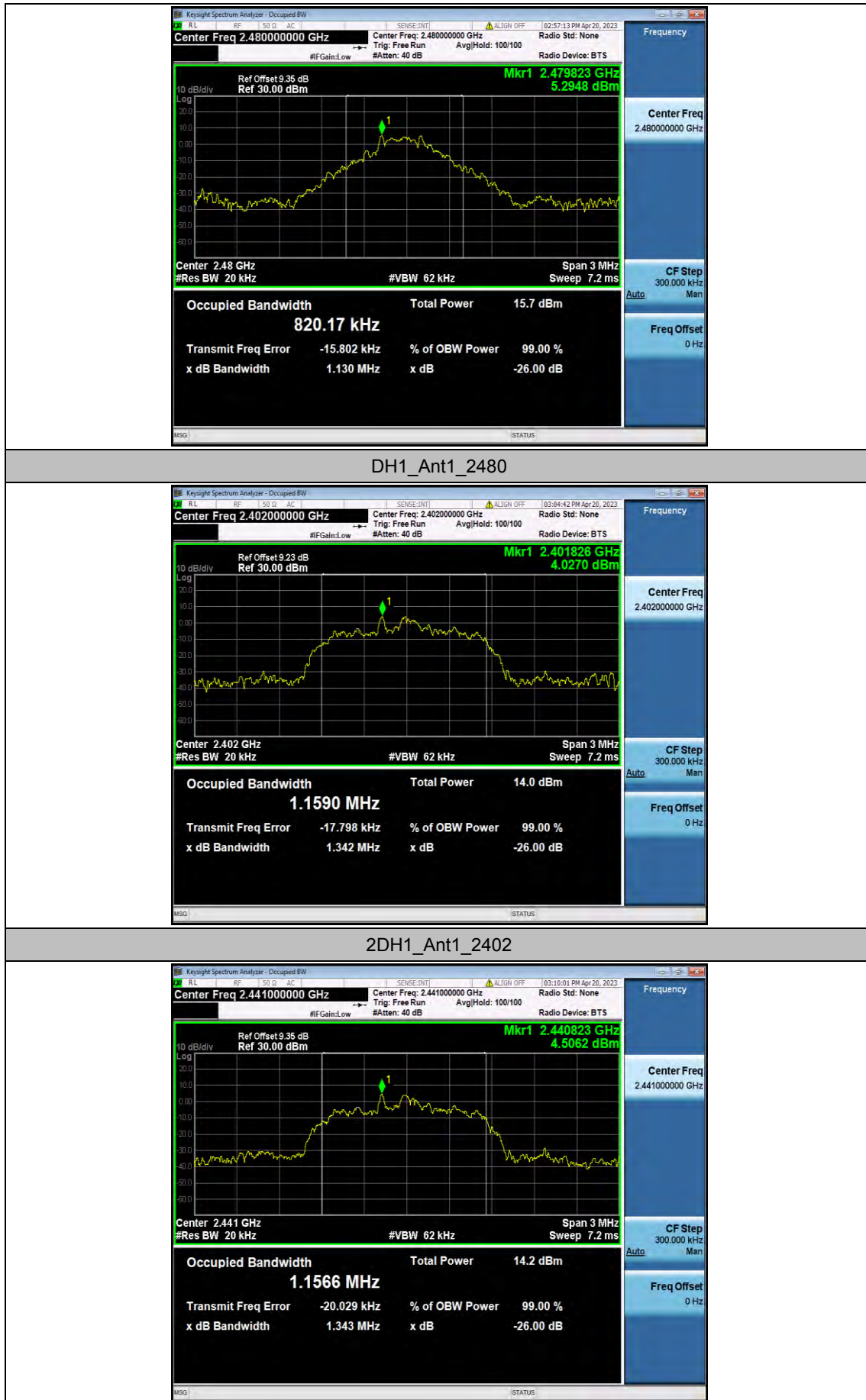
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.84627	2401.562	2402.408	---	---
		2441	0.83753	2440.568	2441.405	---	---
		2480	0.82017	2479.574	2480.394	---	---
2DH1	Ant1	2402	1.1590	2401.403	2402.562	---	---
		2441	1.1566	2440.402	2441.558	---	---
		2480	1.1575	2479.402	2480.560	---	---
3DH1	Ant1	2402	1.1431	2401.426	2402.569	---	---
		2441	1.1511	2440.423	2441.574	---	---
		2480	1.1450	2479.424	2480.569	---	---

Test Graphs

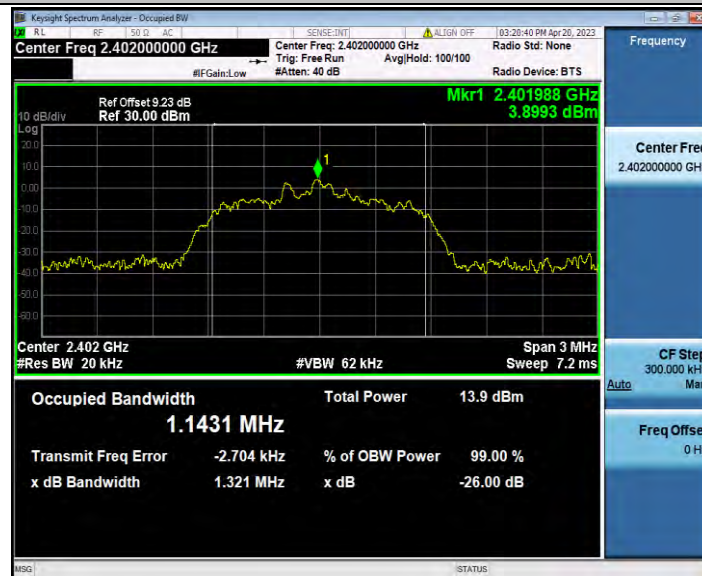




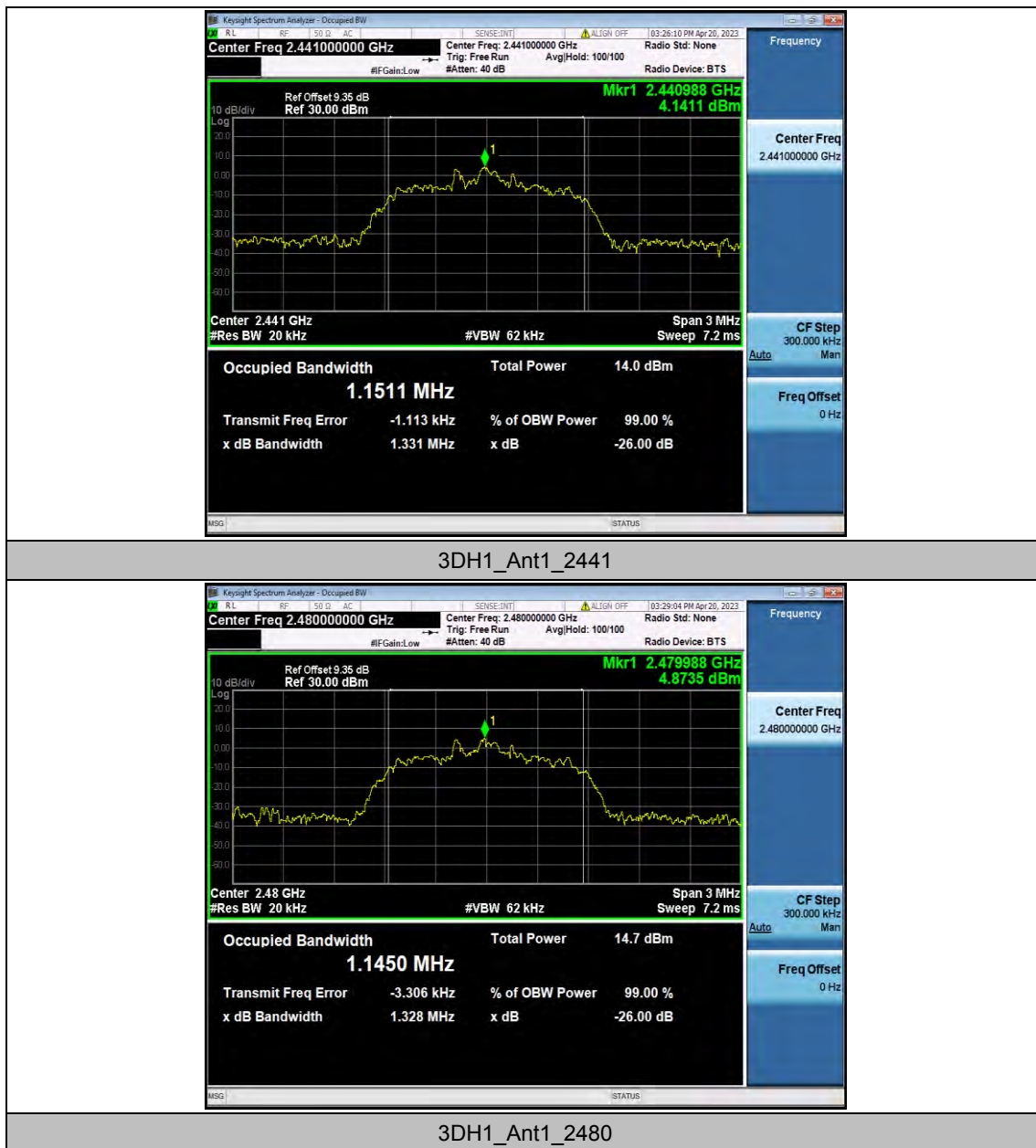
2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



Appendix A.3: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	8.69	≤ 20.97	PASS
		2441	8.86	≤ 20.97	PASS
		2480	8.63	≤ 20.97	PASS
2DH1	Ant1	2402	8.68	≤ 20.97	PASS
		2441	8.87	≤ 20.97	PASS
		2480	8.62	≤ 20.97	PASS
3DH1	Ant1	2402	8.88	≤ 20.97	PASS
		2441	8.00	≤ 20.97	PASS
		2480	8.77	≤ 20.97	PASS

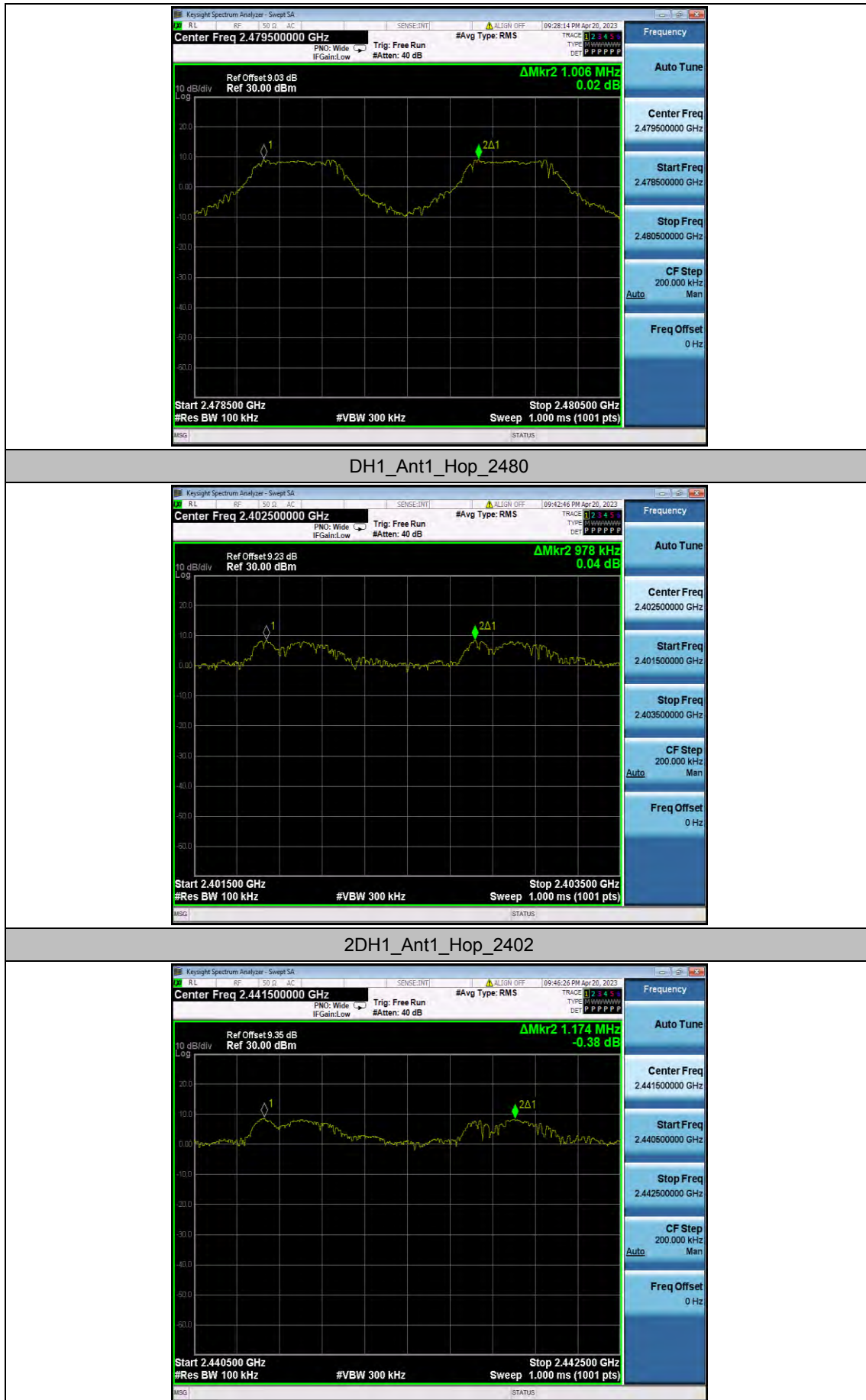
Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.002	≥ 0.616	PASS
		Hop_2441	0.834	≥ 0.616	PASS
		Hop_2480	1.006	≥ 0.616	PASS
2DH1	Ant1	Hop_2402	0.978	≥ 0.848	PASS
		Hop_2441	1.174	≥ 0.848	PASS
		Hop_2480	1.026	≥ 0.848	PASS
3DH1	Ant1	Hop_2402	1.006	≥ 0.818	PASS
		Hop_2441	1.004	≥ 0.818	PASS
		Hop_2480	1.006	≥ 0.818	PASS

Test Graphs





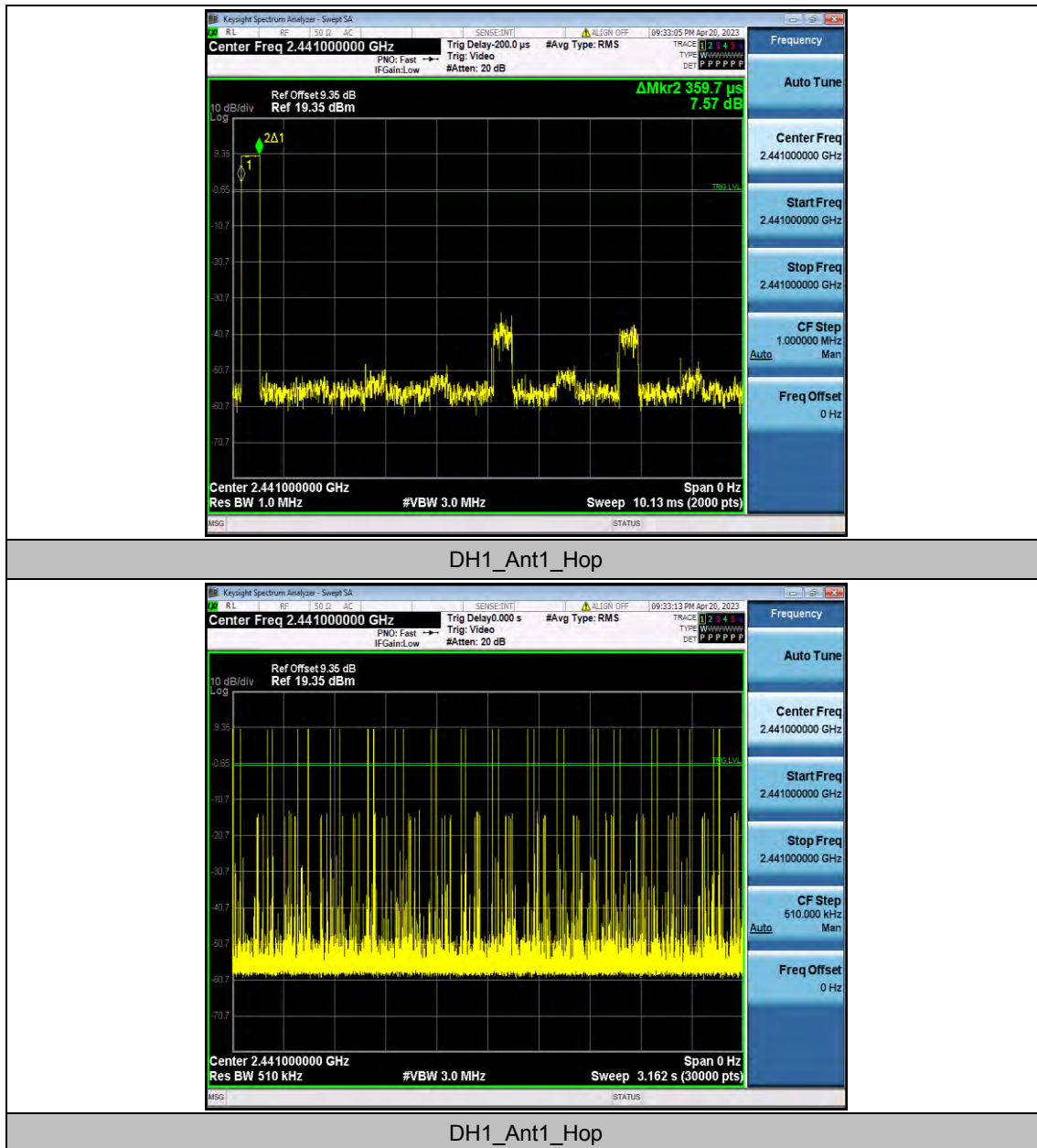


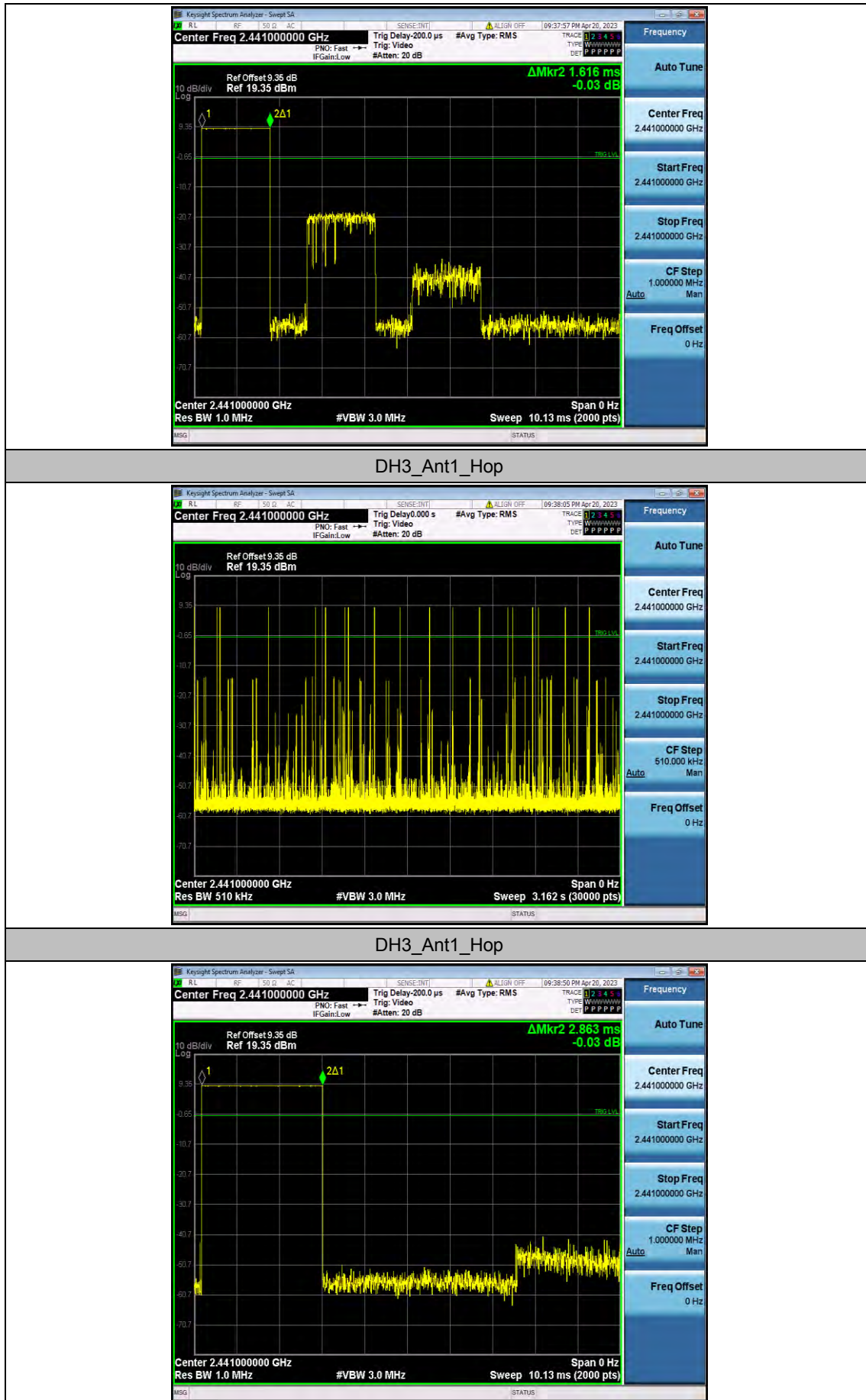
Appendix A.5: Time of occupancy

Test Result

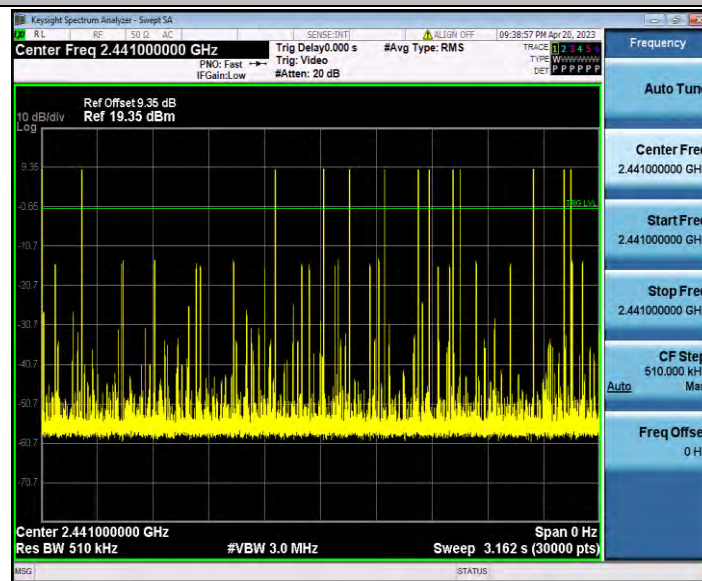
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.36	320	0.115	≤0.4	PASS
DH3	Ant1	Hop	1.62	190	0.307	≤0.4	PASS
DH5	Ant1	Hop	2.86	130	0.372	≤0.4	PASS
2DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.62	160	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.87	70	0.201	≤0.4	PASS
3DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.62	190	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.87	110	0.316	≤0.4	PASS

Test Graphs

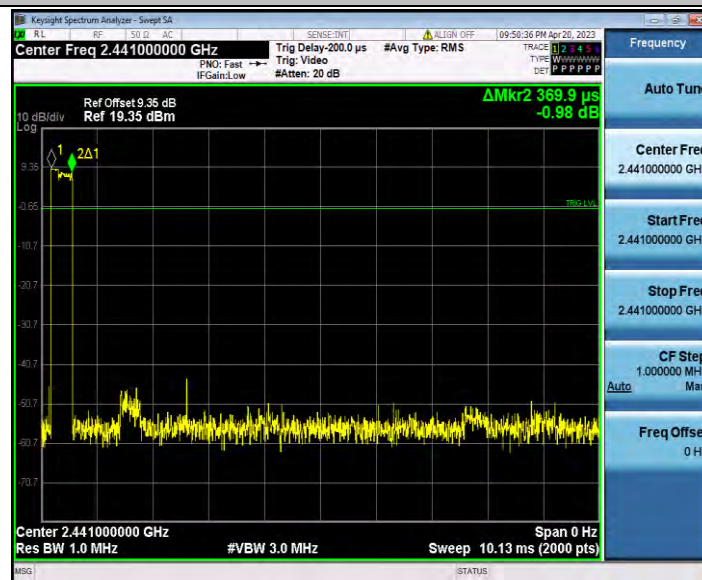




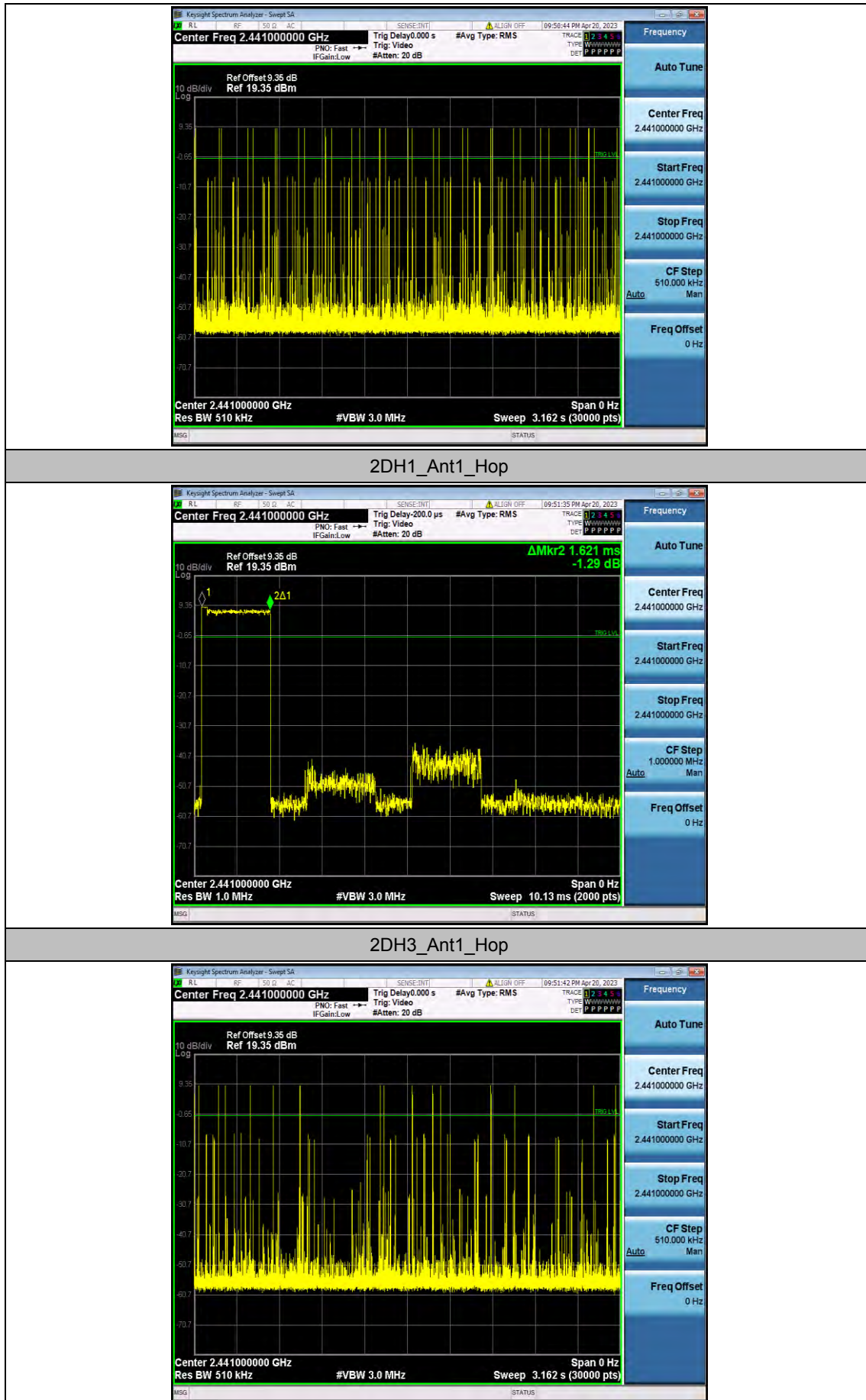
DH5_Ant1_Hop



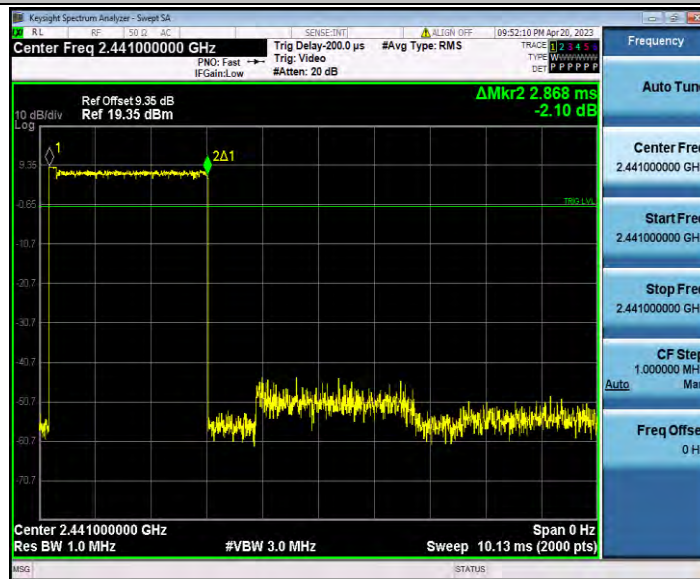
DH5_Ant1_Hop



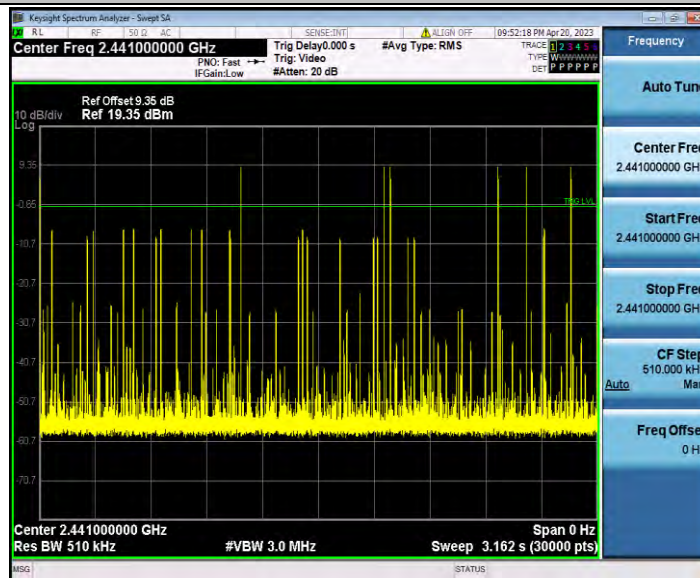
2DH1_Ant1_Hop



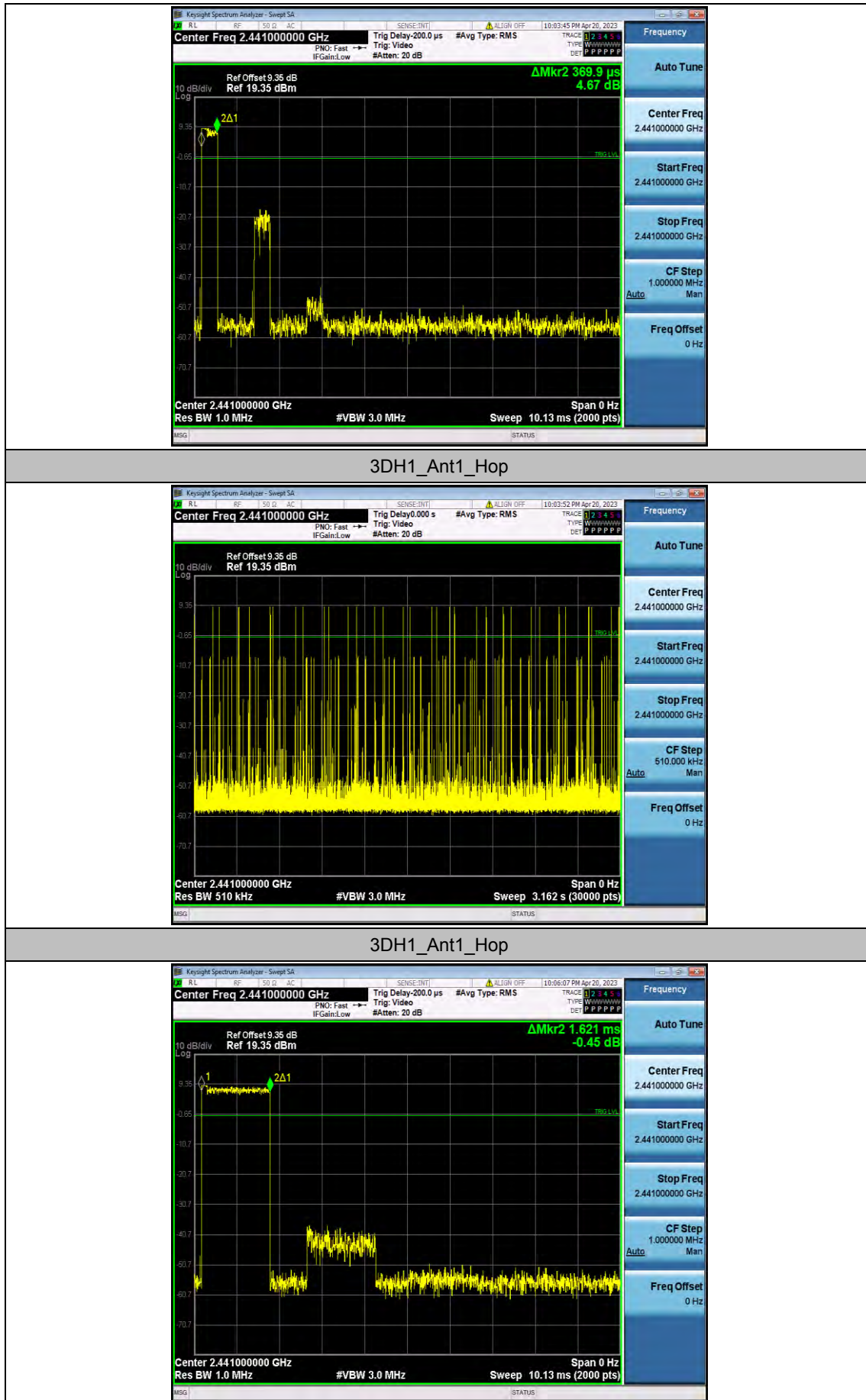
2DH3_Ant1_Hop



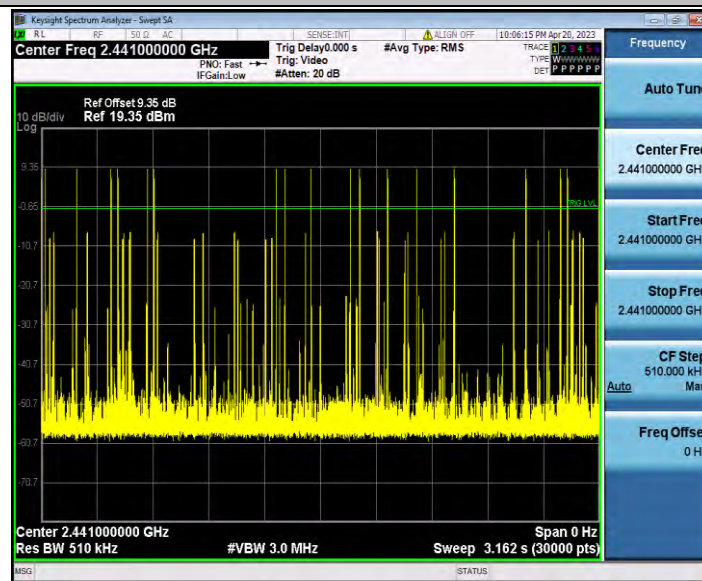
2DH5_Ant1_Hop



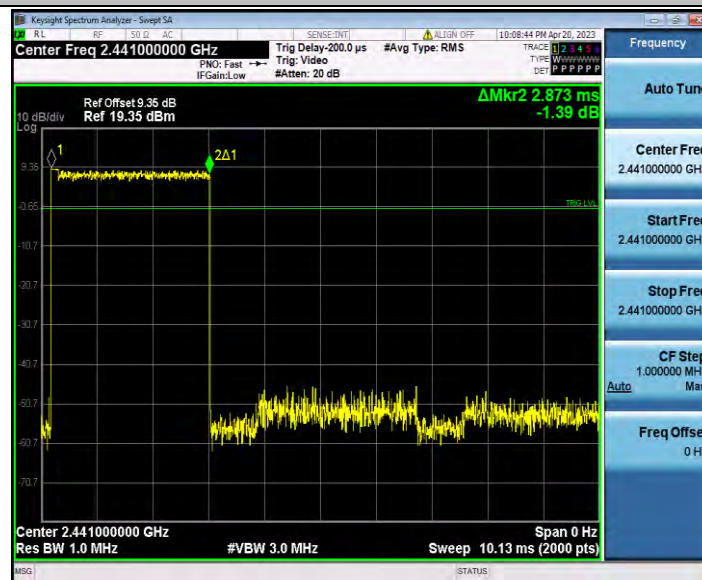
2DH5_Ant1_Hop



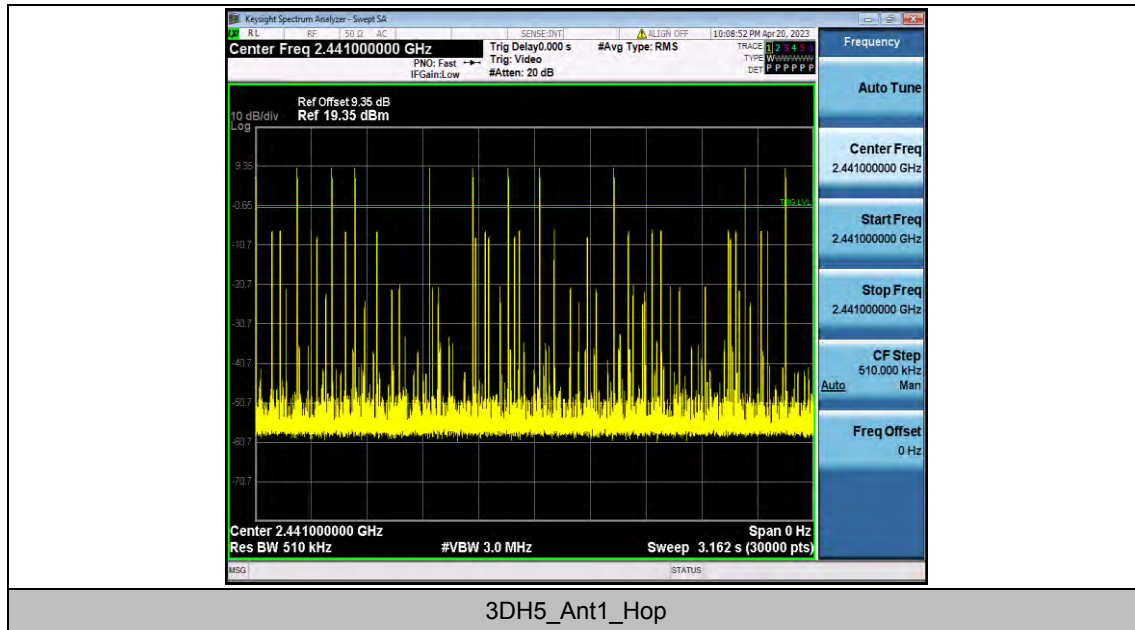
3DH3_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

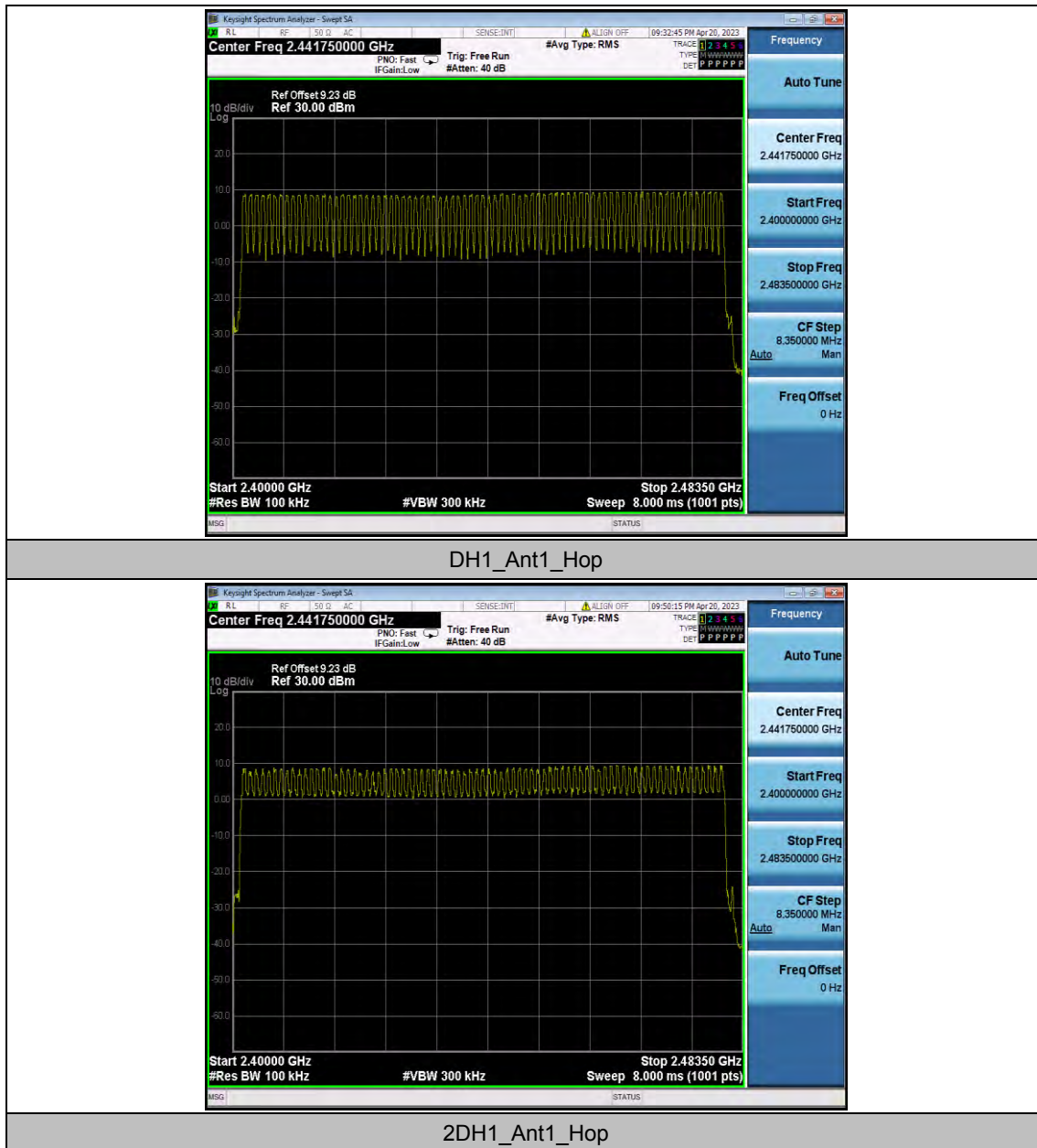


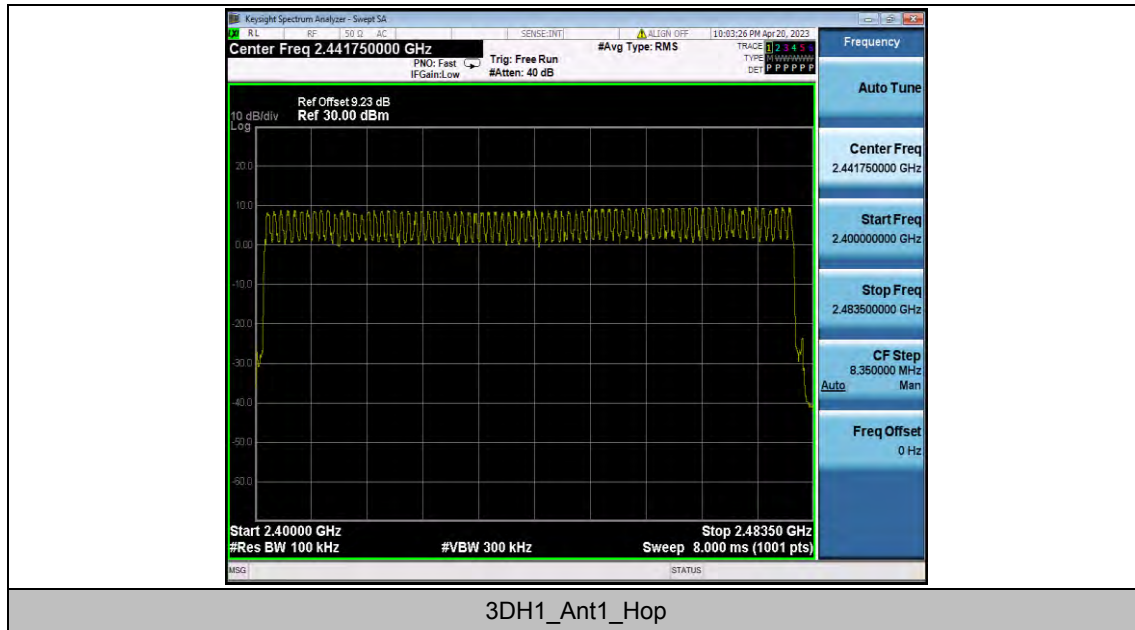
Appendix A.6: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[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



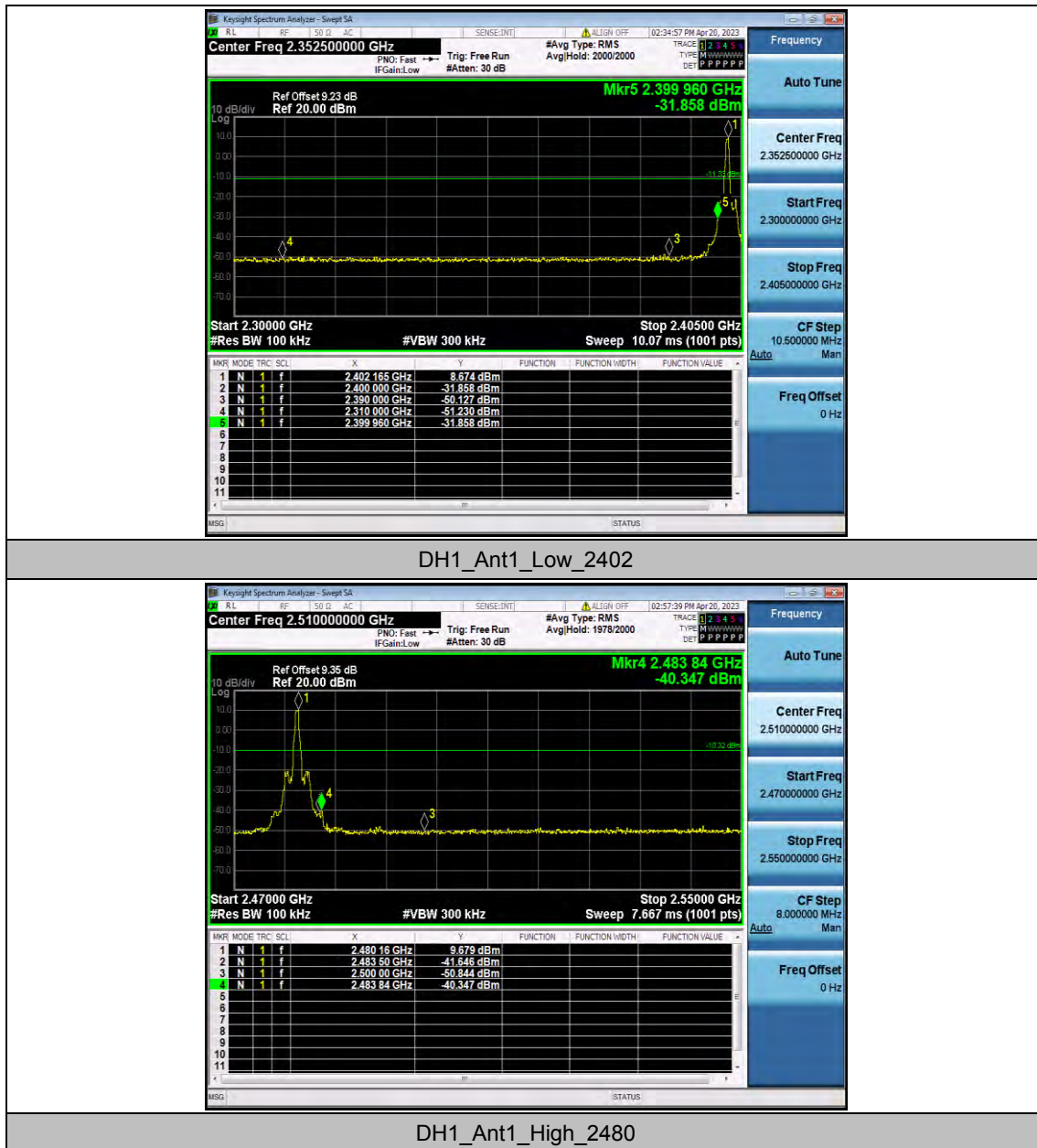


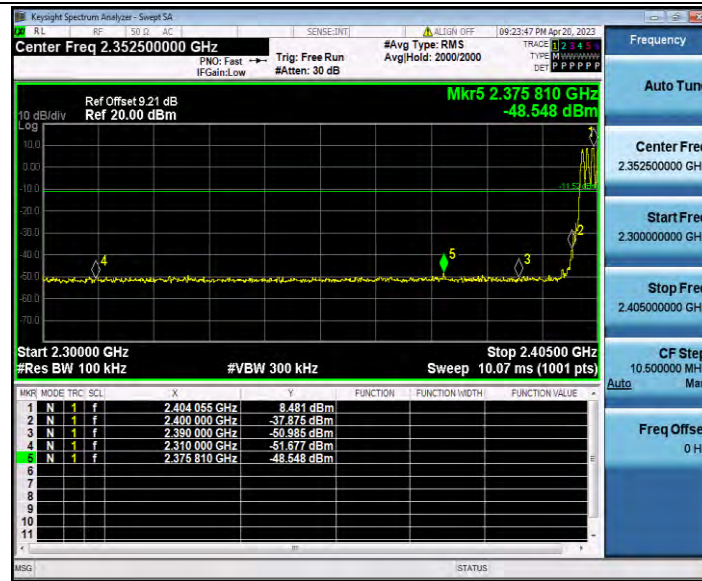
Appendix A.7: Band edge measurements

Test Result

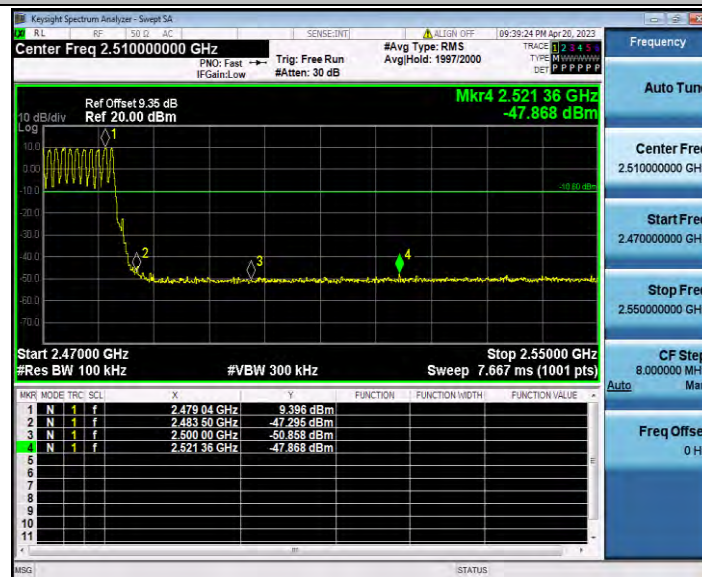
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.67	-31.86	≤ -11.33	PASS
		High	2480	9.68	-40.35	≤ -10.32	PASS
		Low	Hop_2402	8.48	-48.55	≤ -11.52	PASS
		High	Hop_2480	9.40	-47.87	≤ -10.6	PASS
2DH1	Ant1	Low	2402	8.57	-29.57	≤ -11.43	PASS
		High	2480	9.58	-41.91	≤ -10.42	PASS
		Low	Hop_2402	8.62	-49.14	≤ -11.38	PASS
		High	Hop_2480	9.12	-48.26	≤ -10.88	PASS
3DH1	Ant1	Low	2402	8.61	-30.39	≤ -11.4	PASS
		High	2480	9.64	-43.38	≤ -10.36	PASS
		Low	Hop_2402	8.11	-49.3	≤ -11.89	PASS
		High	Hop_2480	8.98	-47.85	≤ -11.02	PASS

Test Graphs

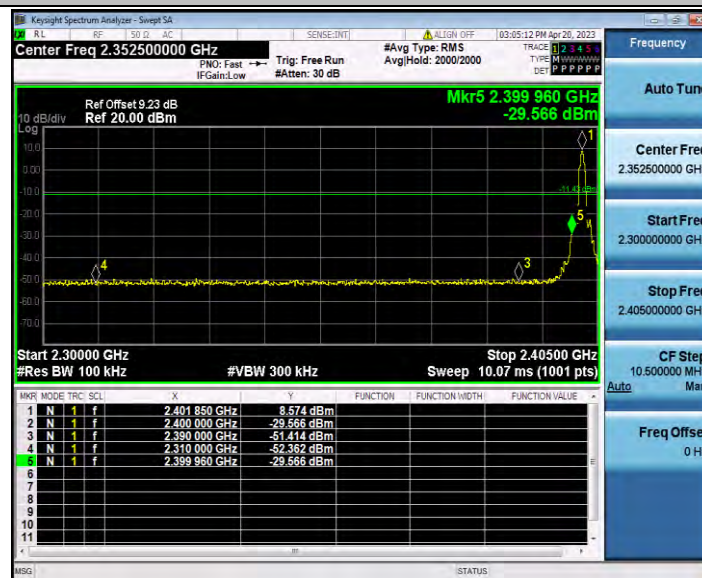




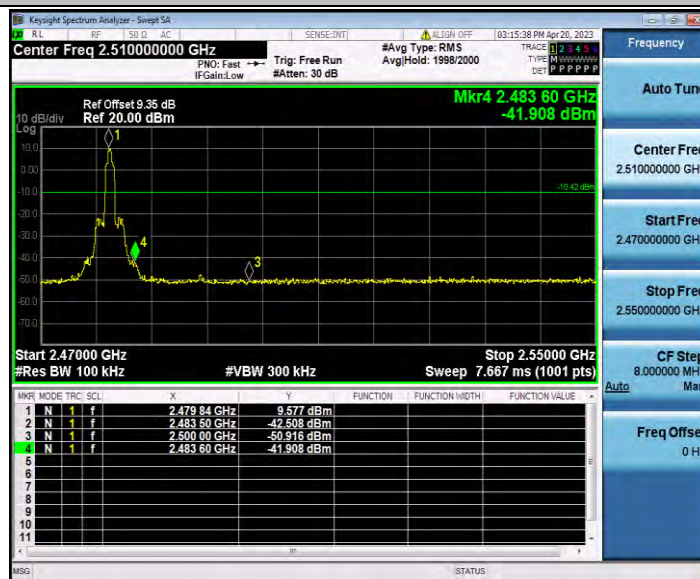
DH1_Ant1_Low_Hop_2402



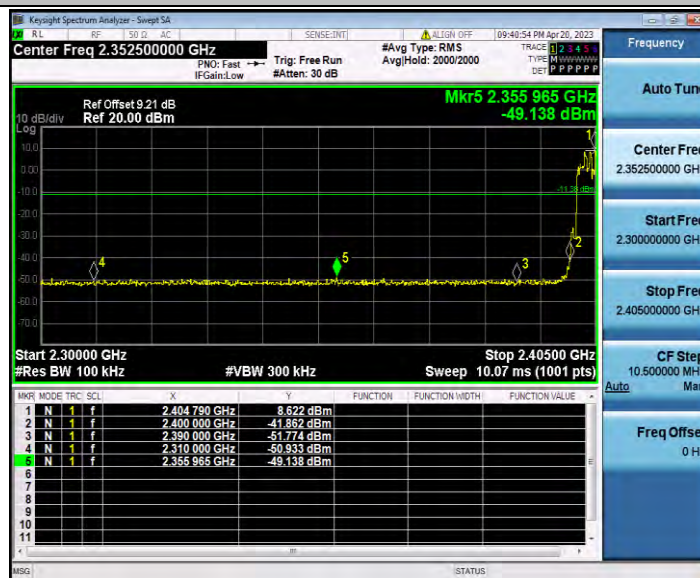
DH1_Ant1_High_Hop_2480



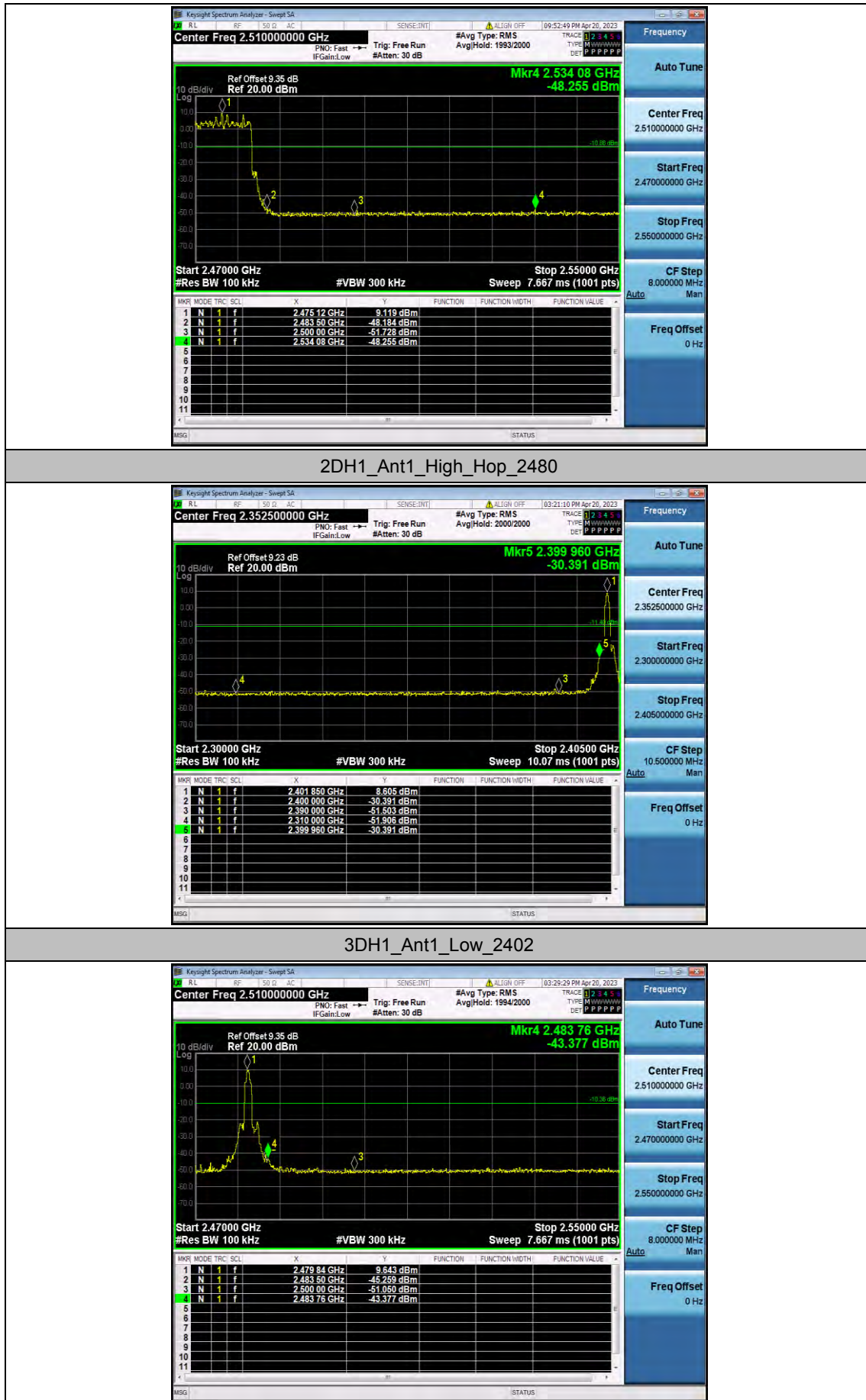
2DH1_Ant1_Low_2402



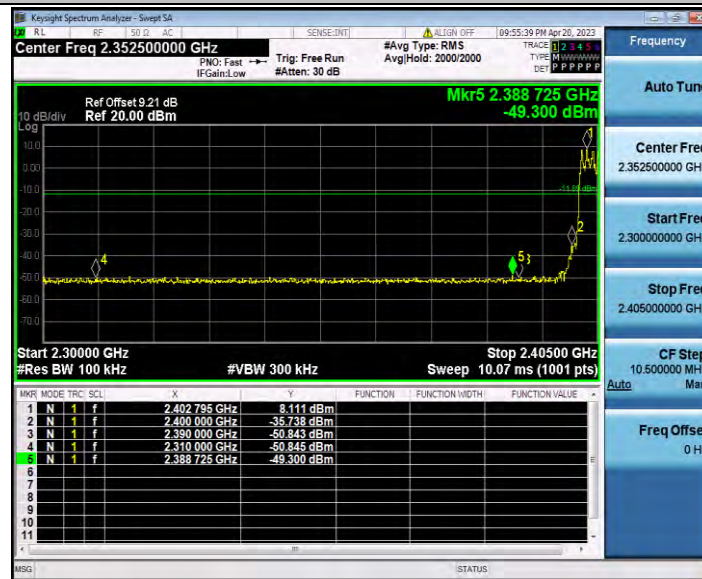
2DH1_Ant1_High_2480



2DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



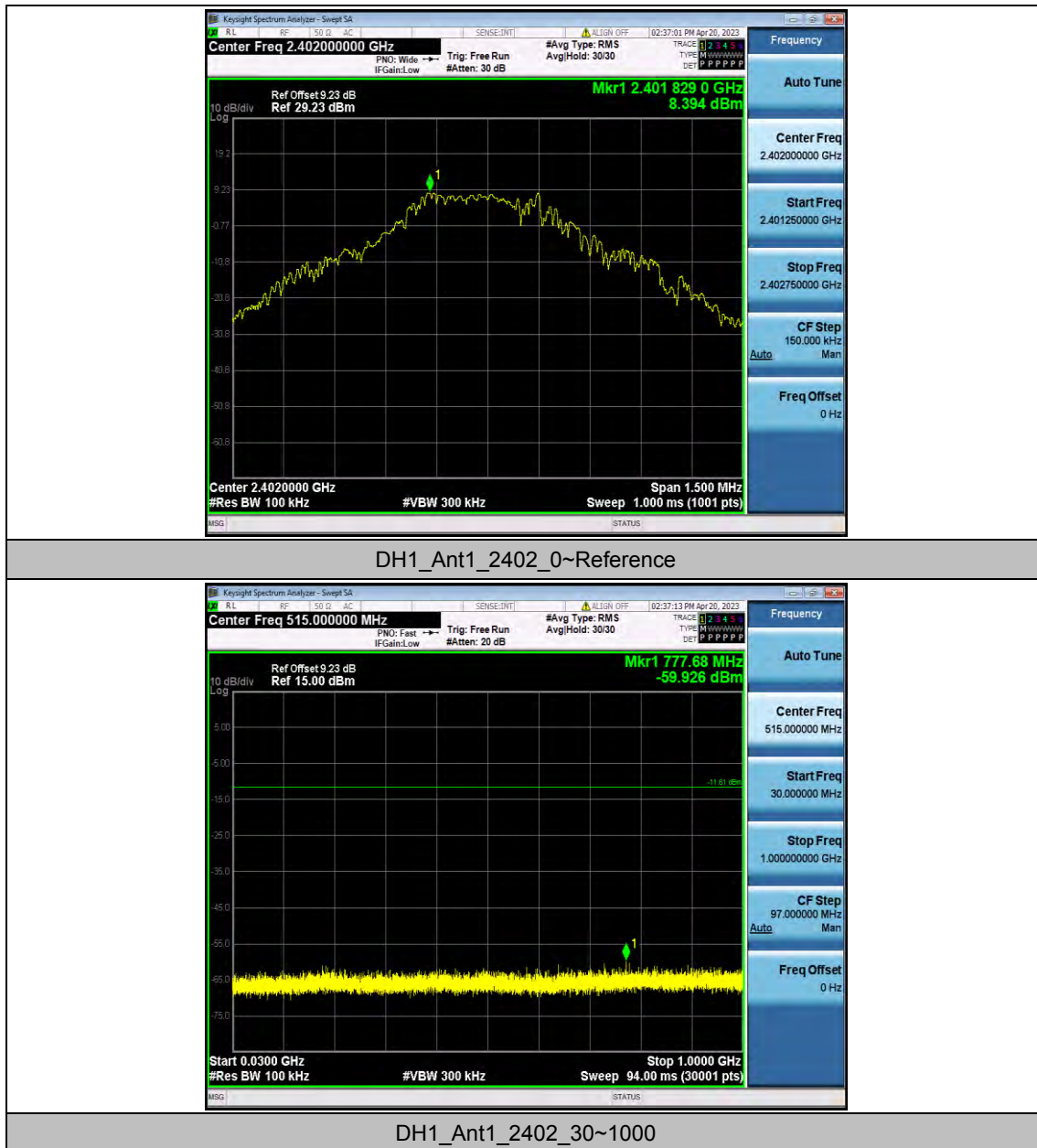
3DH1_Ant1_High_Hop_2480

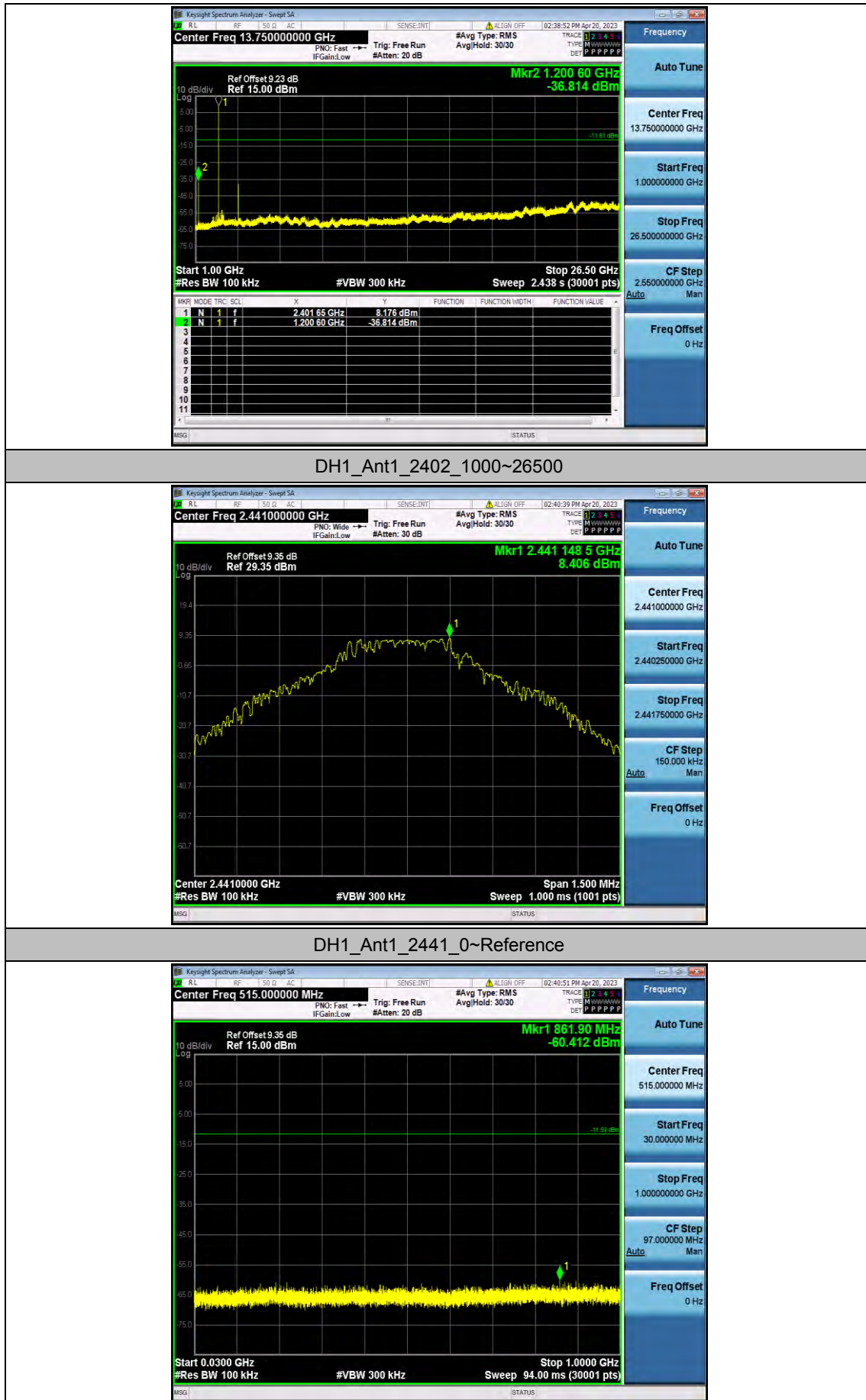
Appendix A.8: Conducted Spurious Emission

Test Result

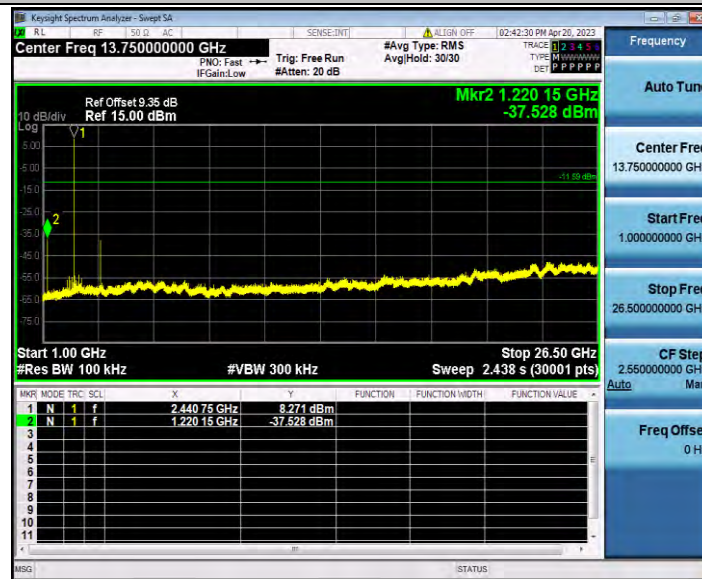
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	8.39	8.39	---	PASS
			30~1000	8.39	-59.93	≤ -11.61	PASS
			1000~26500	8.39	-36.81	≤ -11.61	PASS
		2441	Reference	8.41	8.41	---	PASS
			30~1000	8.41	-60.41	≤ -11.59	PASS
			1000~26500	8.41	-37.53	≤ -11.59	PASS
		2480	Reference	9.18	9.18	---	PASS
			30~1000	9.18	-59.88	≤ -10.82	PASS
			1000~26500	9.18	-37.38	≤ -10.82	PASS
2DH1	Ant1	2402	Reference	7.84	7.84	---	PASS
			30~1000	7.84	-60.2	≤ -12.16	PASS
			1000~26500	7.84	-37.59	≤ -12.16	PASS
		2441	Reference	8.27	8.27	---	PASS
			30~1000	8.27	-60.29	≤ -11.73	PASS
			1000~26500	8.27	-36.38	≤ -11.73	PASS
		2480	Reference	8.86	8.86	---	PASS
			30~1000	8.86	-60.35	≤ -11.14	PASS
			1000~26500	8.86	-36.88	≤ -11.14	PASS
3DH1	Ant1	2402	Reference	7.90	7.90	---	PASS
			30~1000	7.90	-56.86	≤ -12.1	PASS
			1000~26500	7.90	-37.07	≤ -12.1	PASS
		2441	Reference	8.05	8.05	---	PASS
			30~1000	8.05	-59.81	≤ -11.95	PASS
			1000~26500	8.05	-38.42	≤ -11.95	PASS
		2480	Reference	9.57	9.57	---	PASS
			30~1000	9.57	-60.54	≤ -10.43	PASS
			1000~26500	9.57	-36.74	≤ -10.43	PASS

Test Graphs





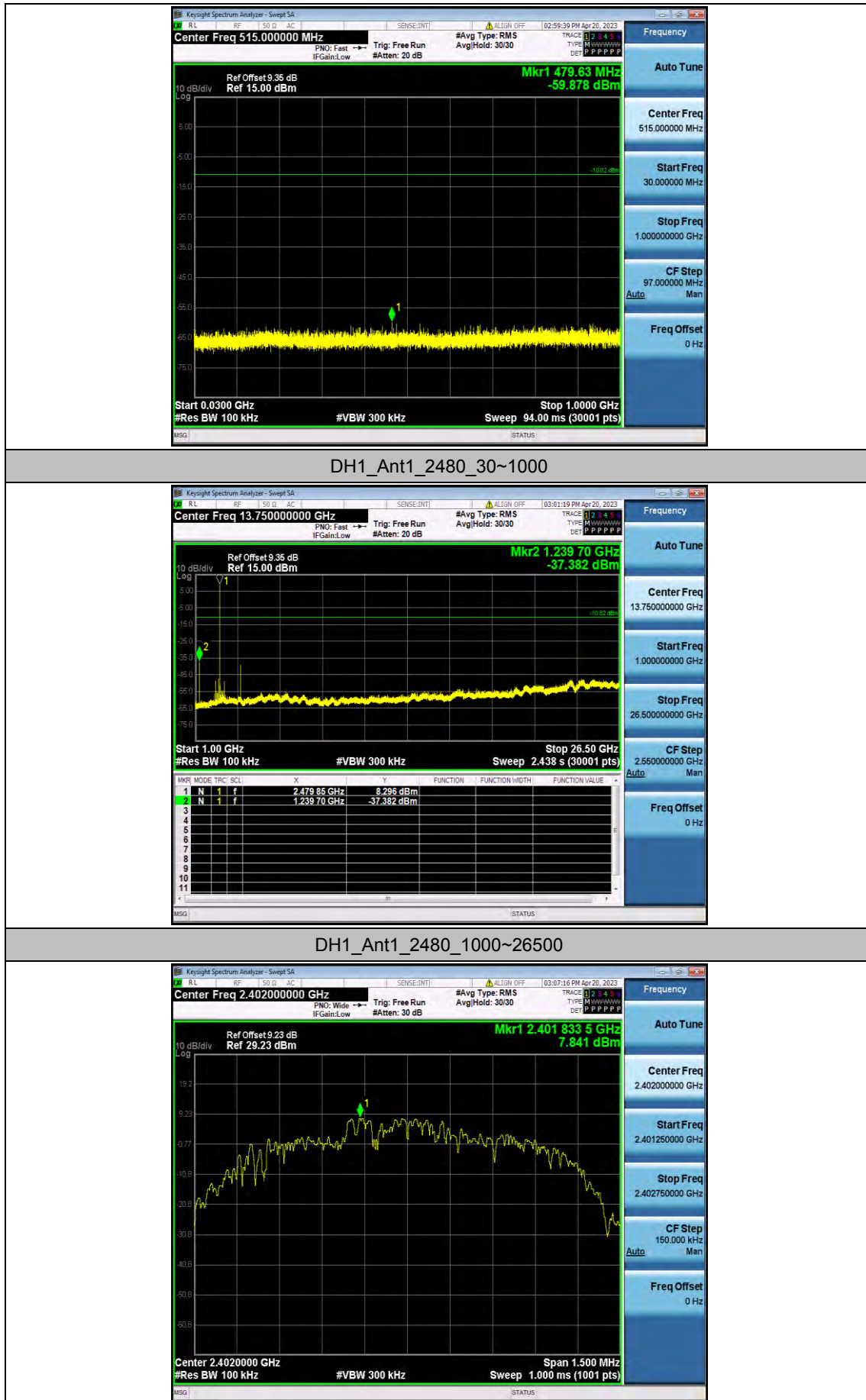
DH1_Ant1_2441_30~1000



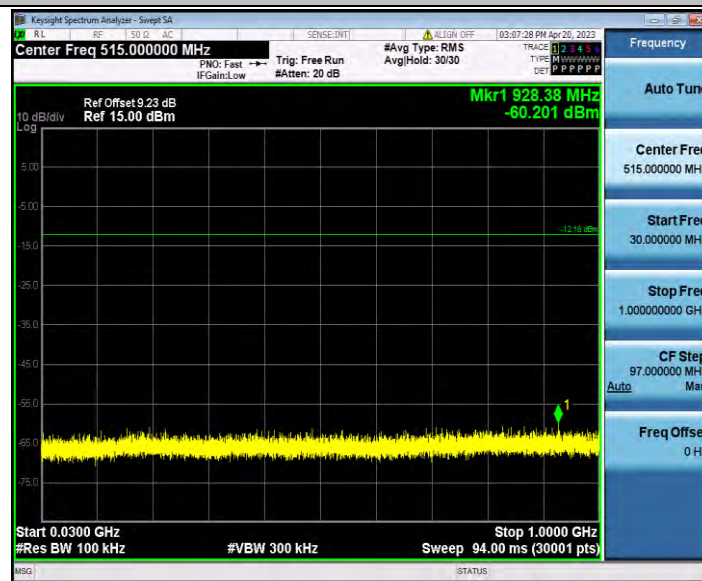
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



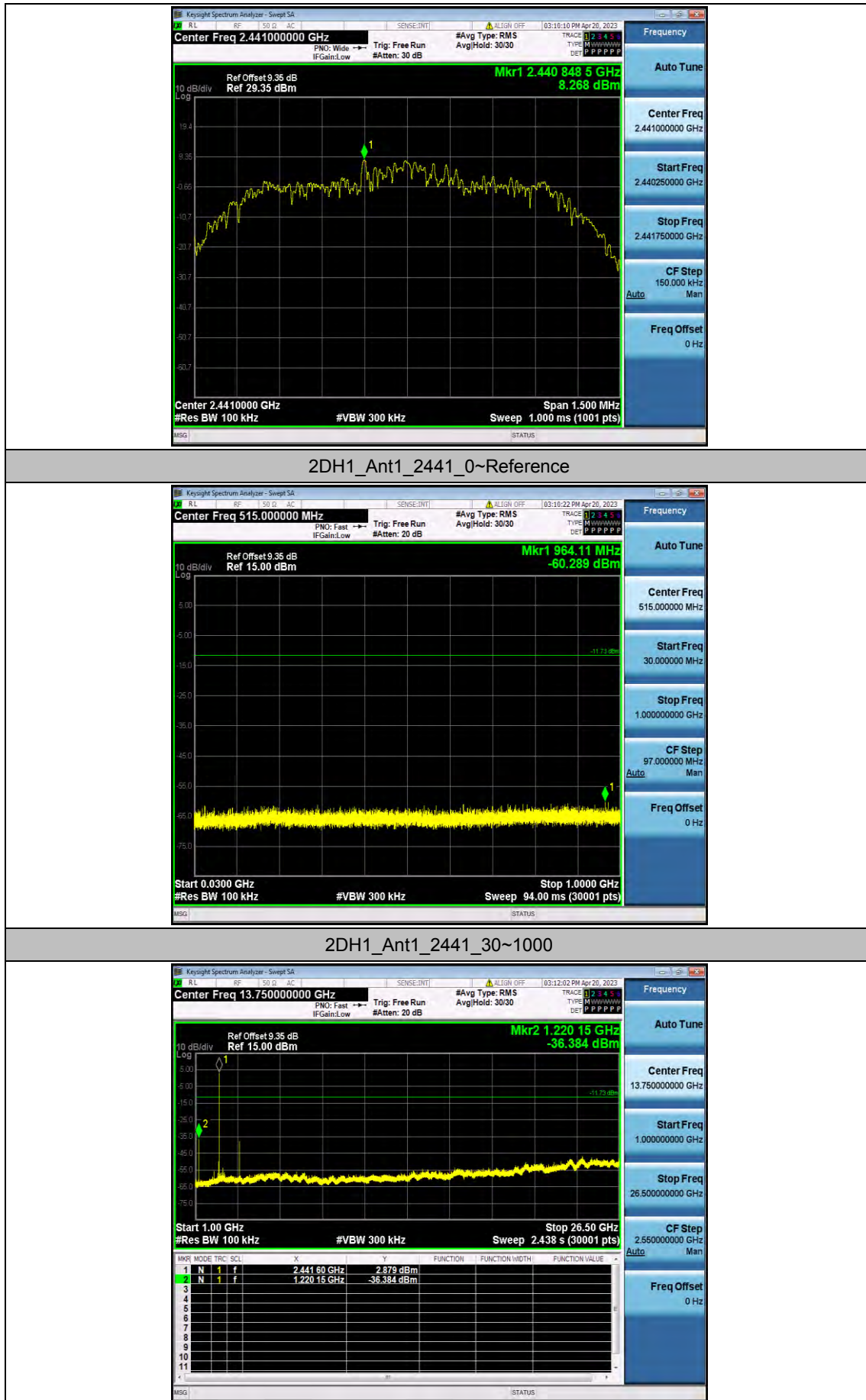
2DH1_Ant1_2402_0~Reference

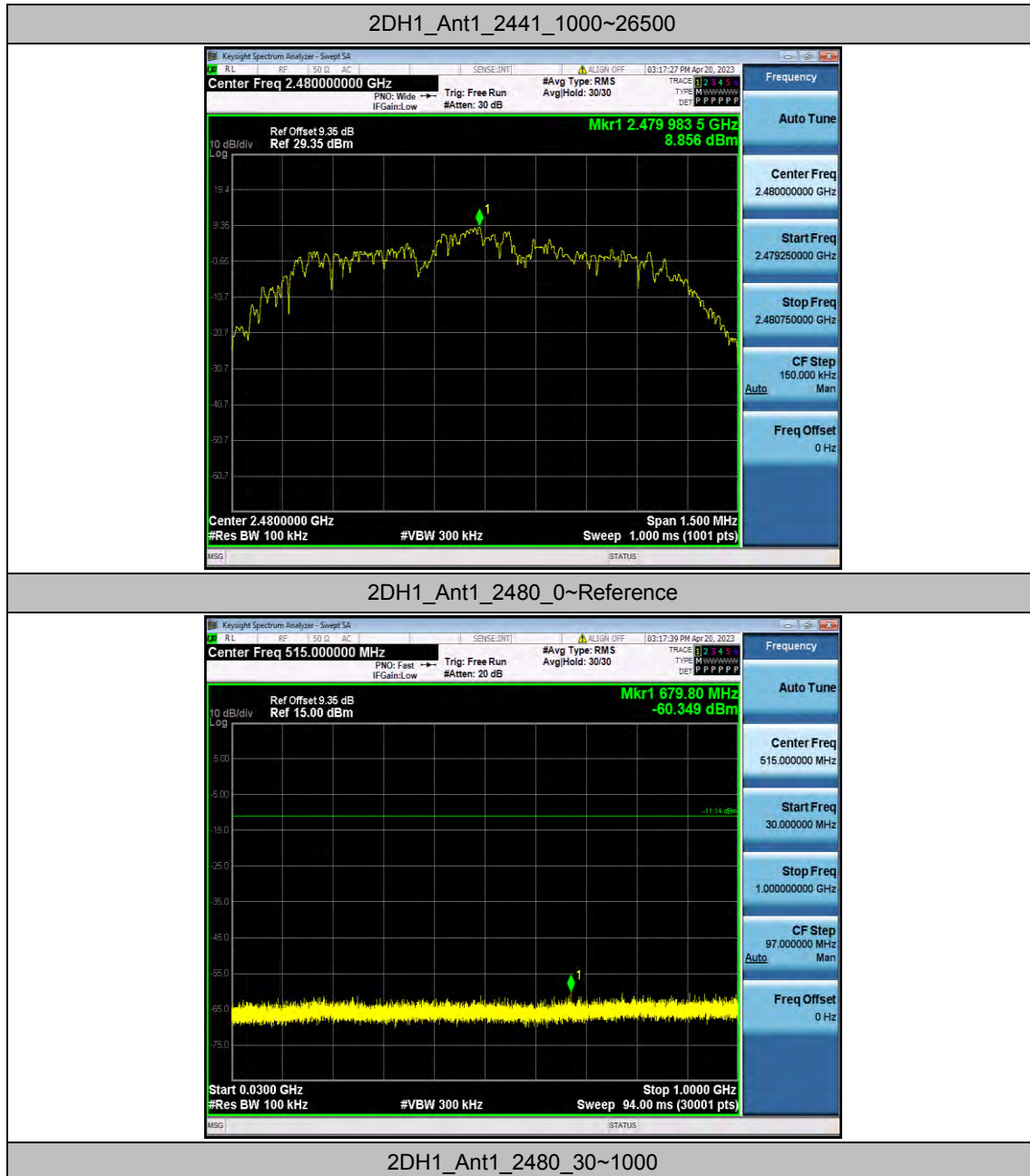


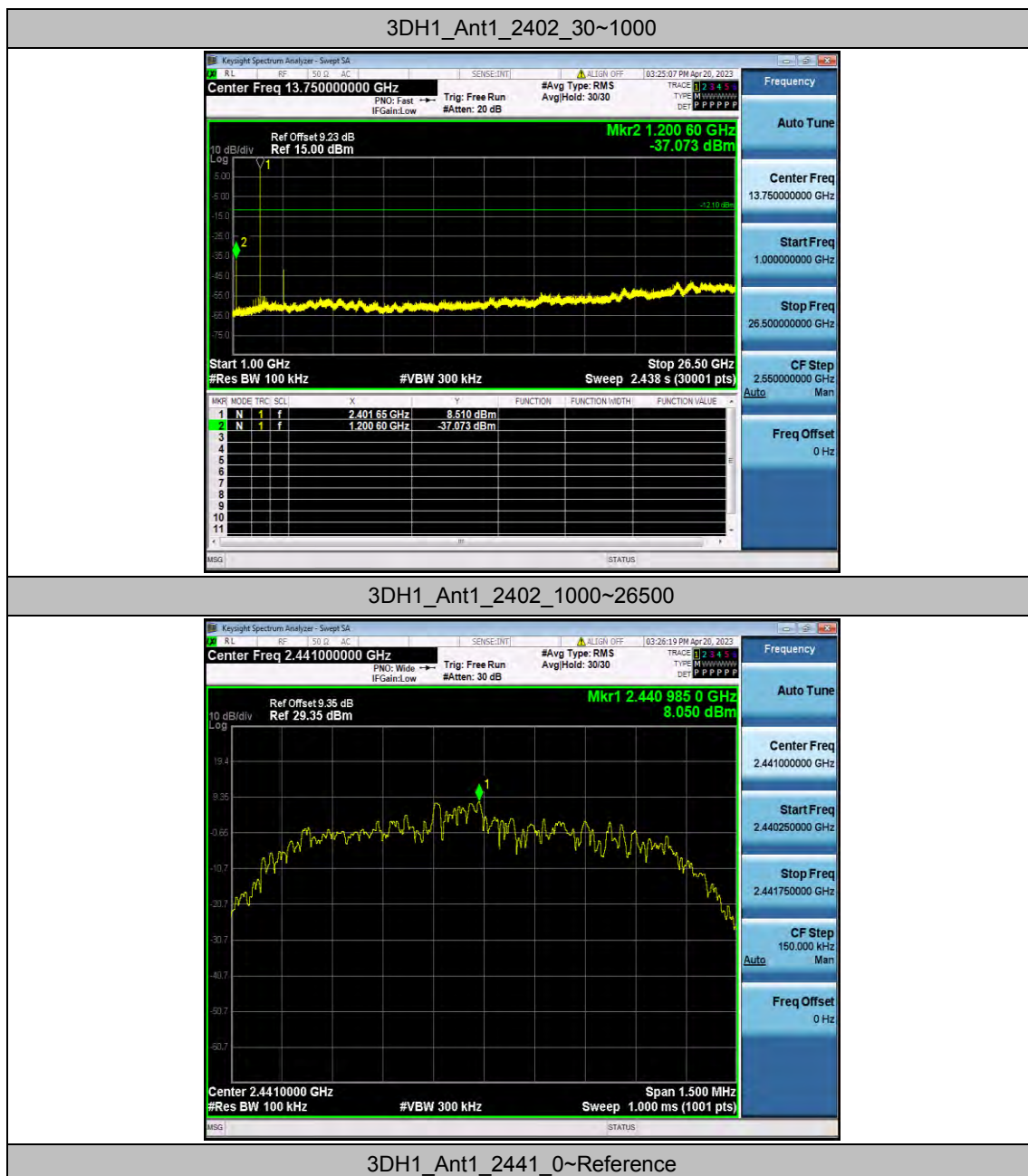
2DH1_Ant1_2402_30~1000

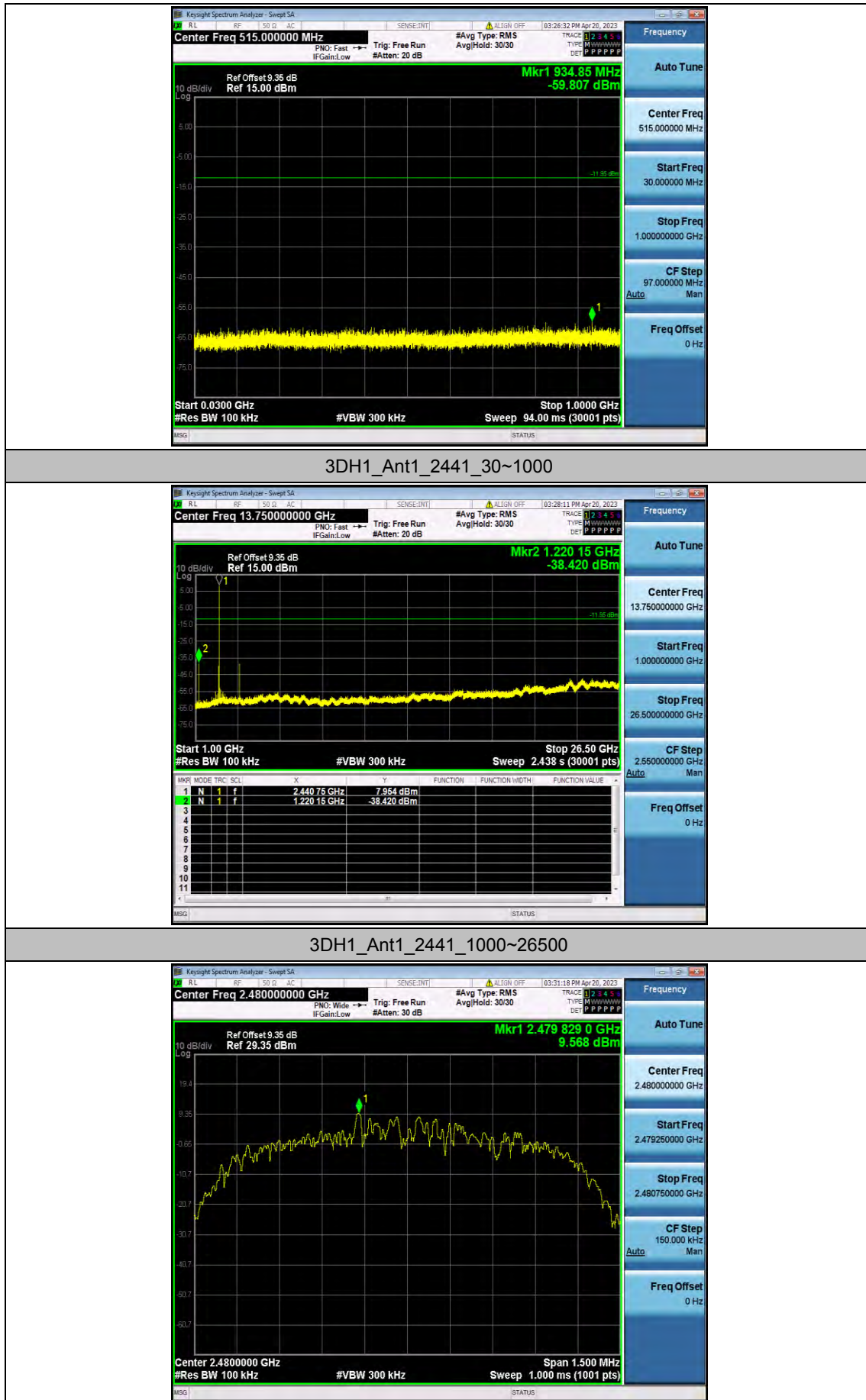


2DH1_Ant1_2402_1000~26500

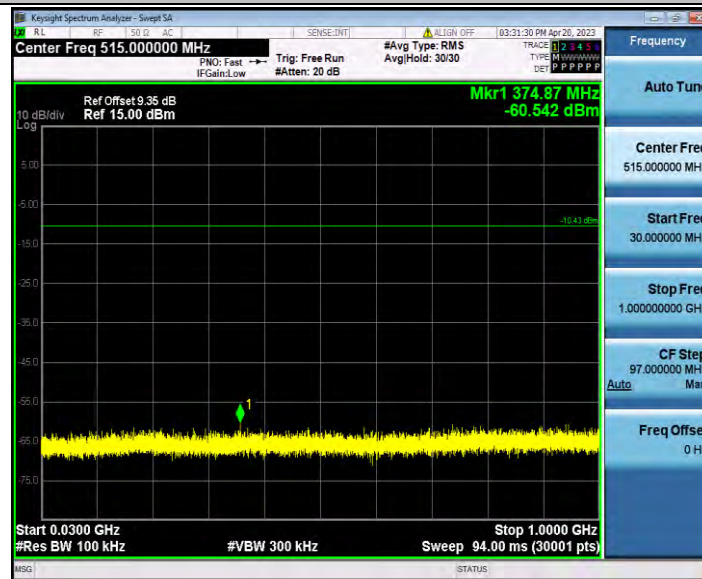




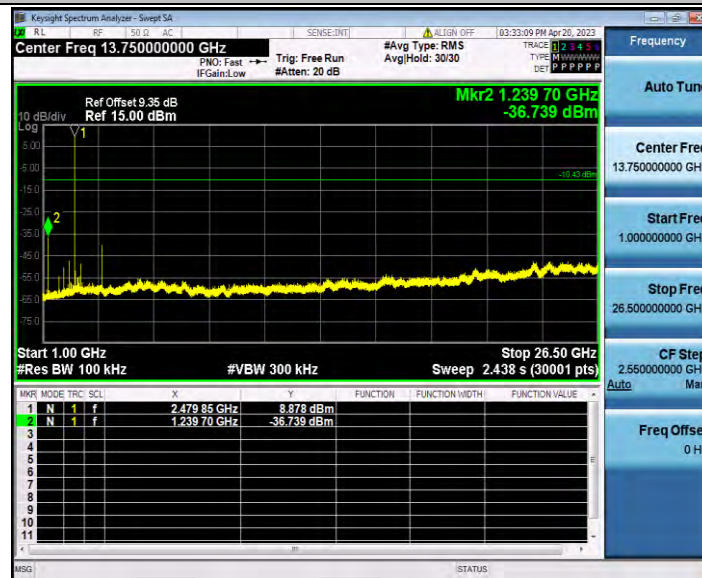




3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500