

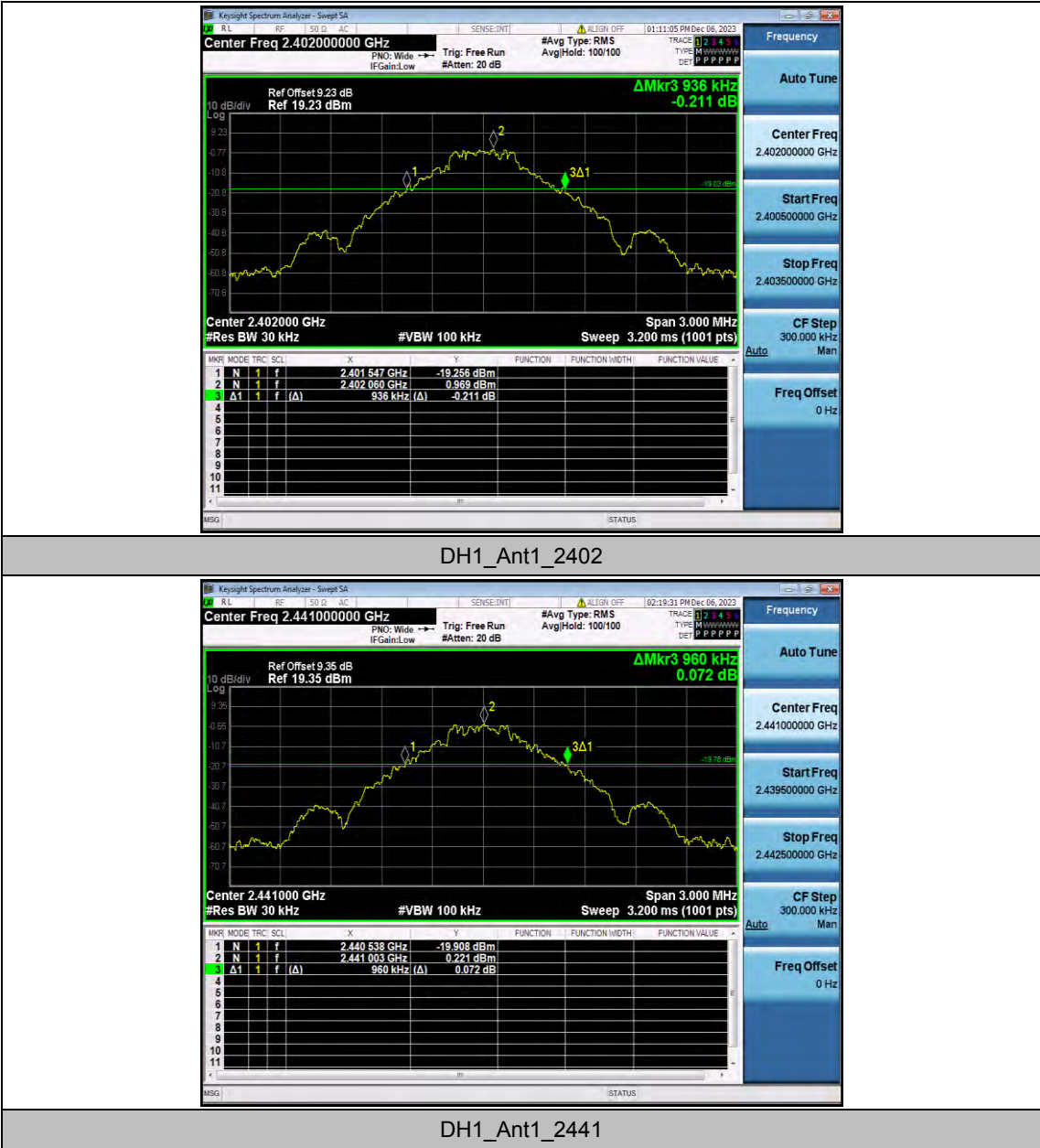
Case No. : <u>GTS20231012003-1-2</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.12.5</u>	Test Engineer: <u>Evan ouyang</u>

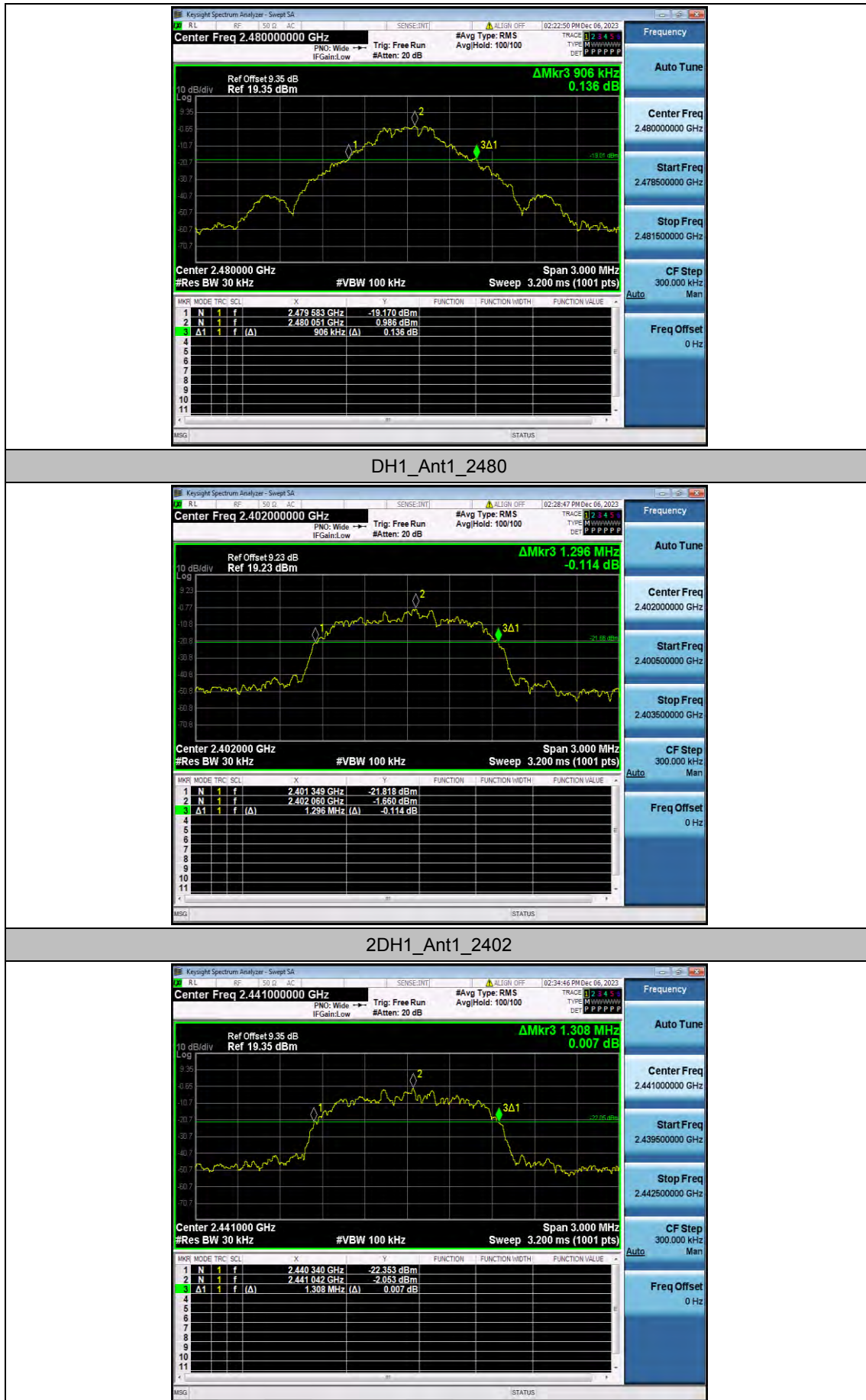
Appendix A.1: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.936	2401.547	2402.483	---	---
		2441	0.960	2440.538	2441.498	---	---
		2480	0.906	2479.583	2480.489	---	---
2DH1	Ant1	2402	1.296	2401.349	2402.645	---	---
		2441	1.308	2440.340	2441.648	---	---
		2480	1.281	2479.367	2480.648	---	---
3DH1	Ant1	2402	1.263	2401.370	2402.633	---	---
		2441	1.263	2440.370	2441.633	---	---
		2480	1.260	2479.370	2480.630	---	---

Test Graphs





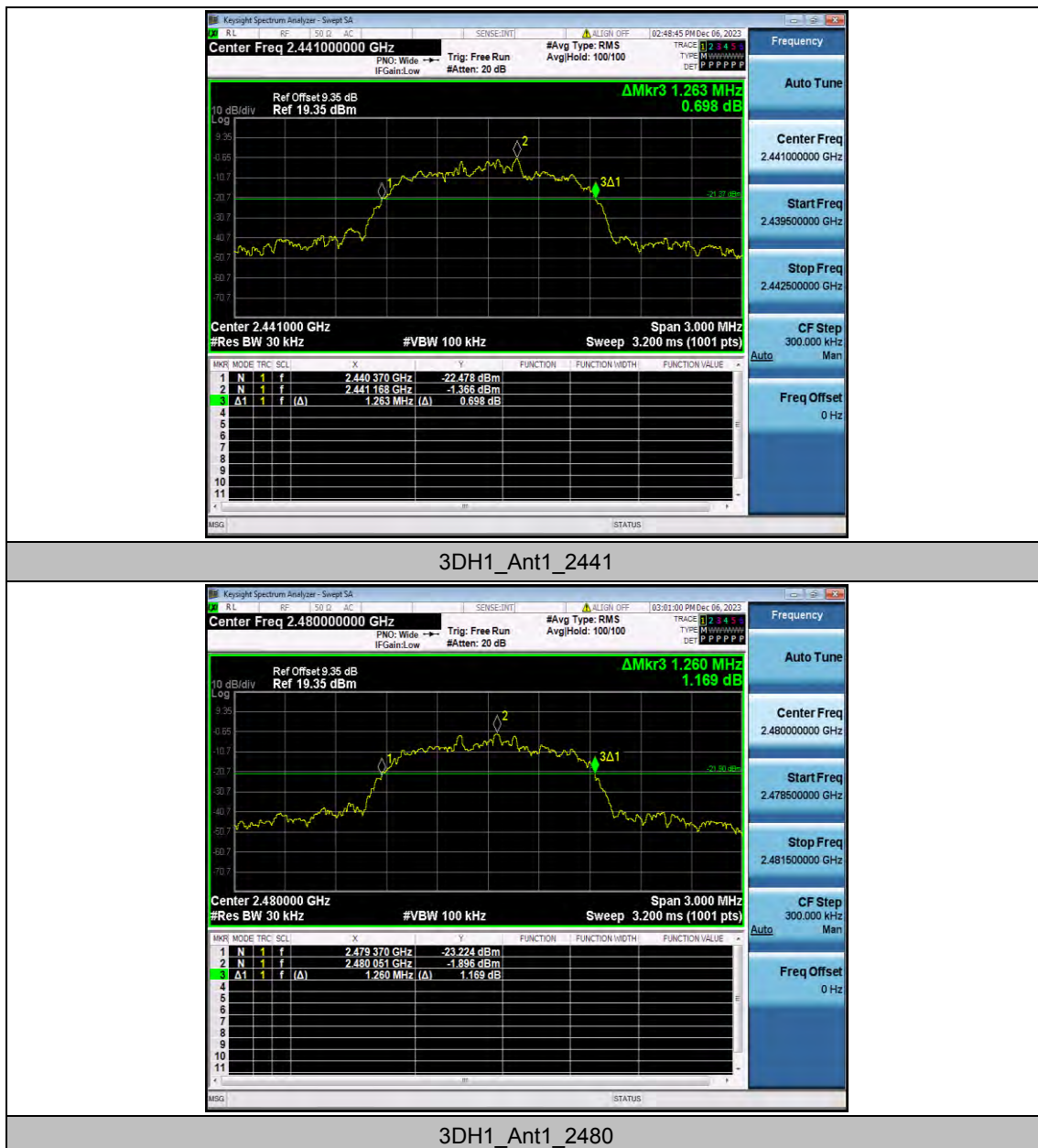
2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402

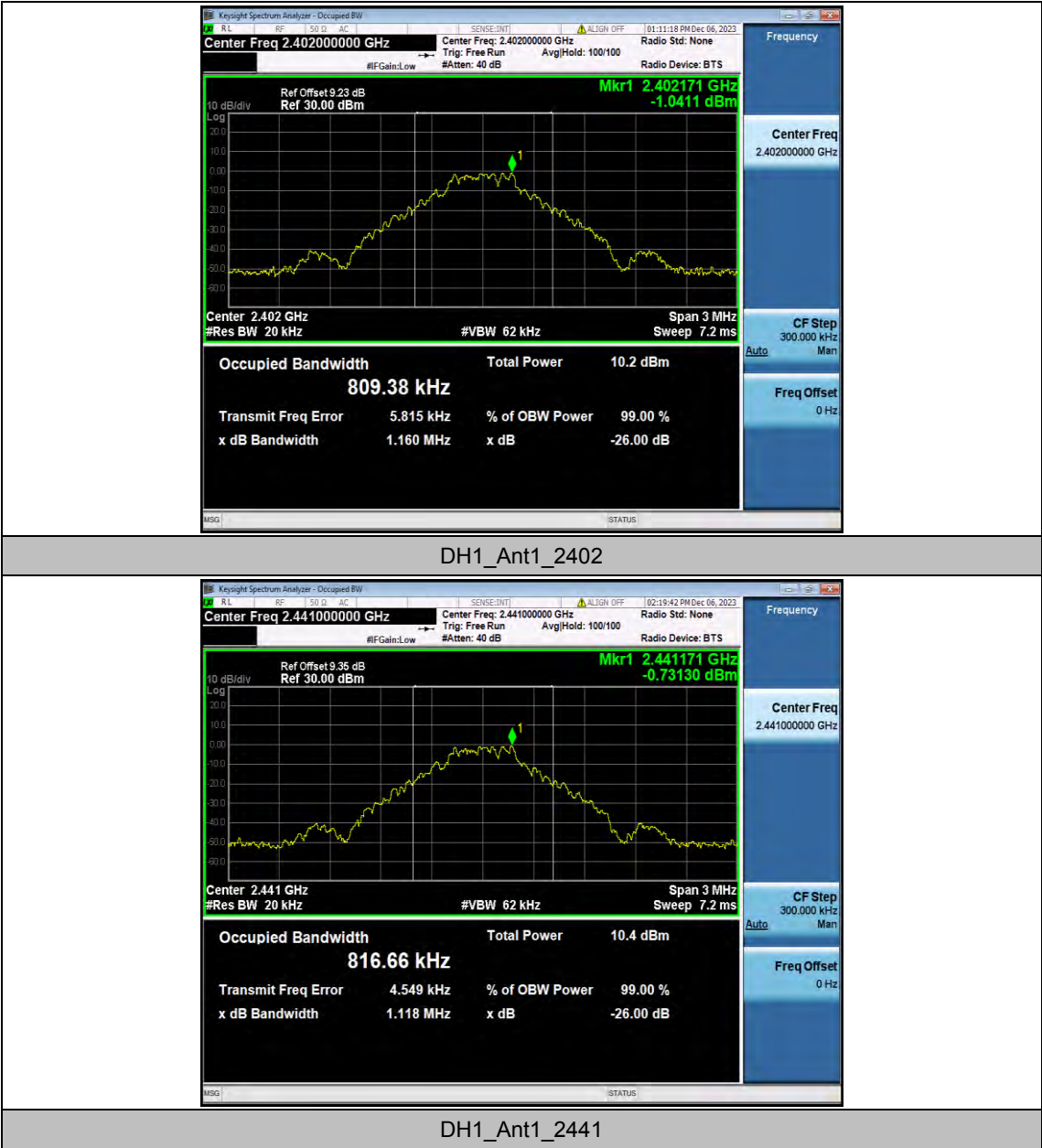


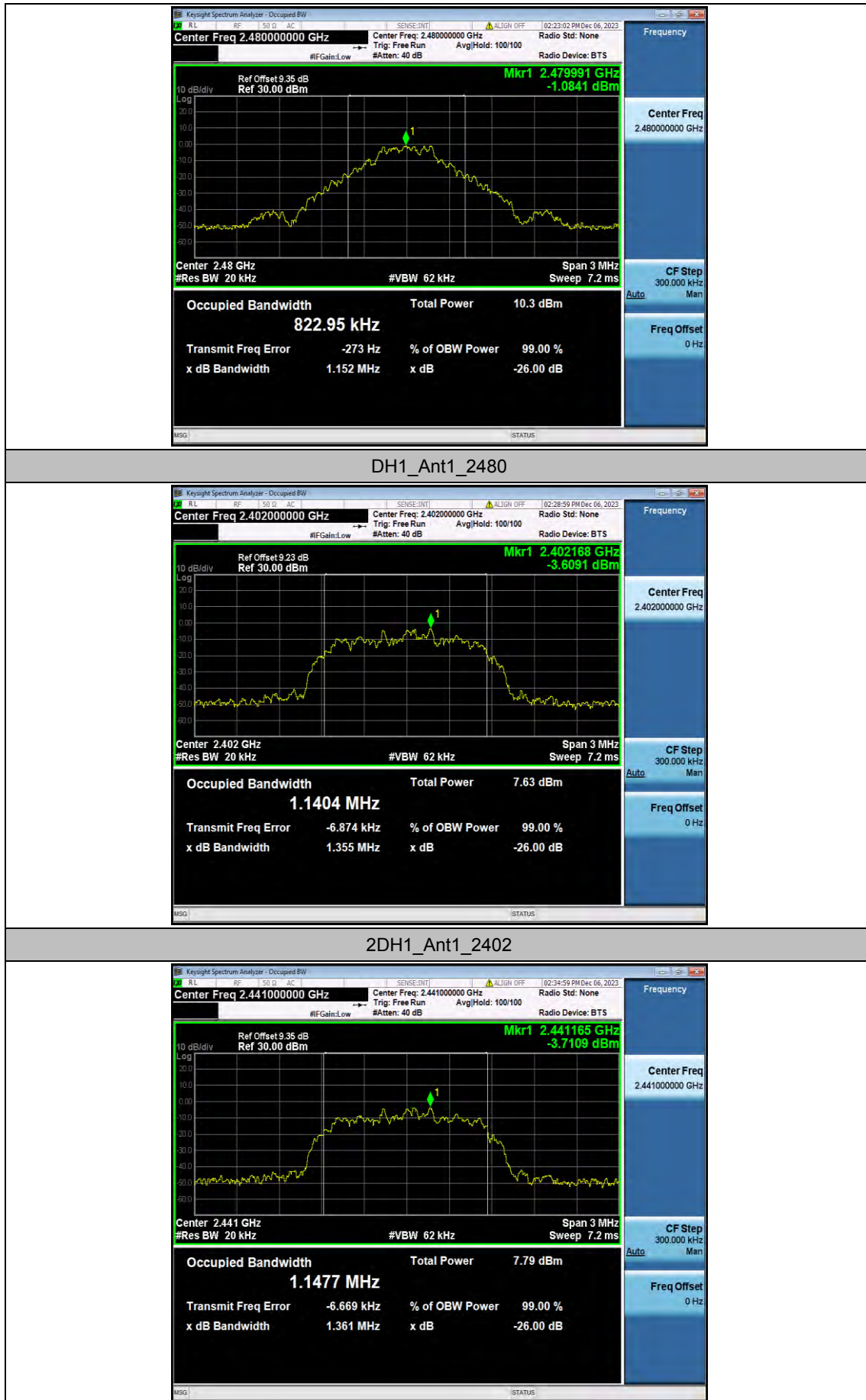
Appendix A.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.80938	2401.601	2402.411	---	---
		2441	0.81666	2440.596	2441.413	---	---
		2480	0.82295	2479.588	2480.411	---	---
2DH1	Ant1	2402	1.1404	2401.423	2402.563	---	---
		2441	1.1477	2440.419	2441.567	---	---
		2480	1.1623	2479.417	2480.579	---	---
3DH1	Ant1	2402	1.1508	2401.438	2402.588	---	---
		2441	1.1516	2440.437	2441.589	---	---
		2480	1.1473	2479.438	2480.585	---	---

Test Graphs

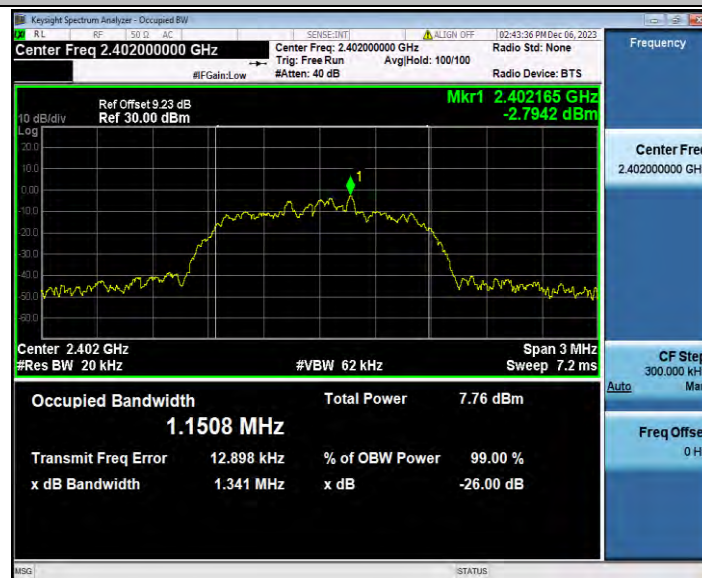




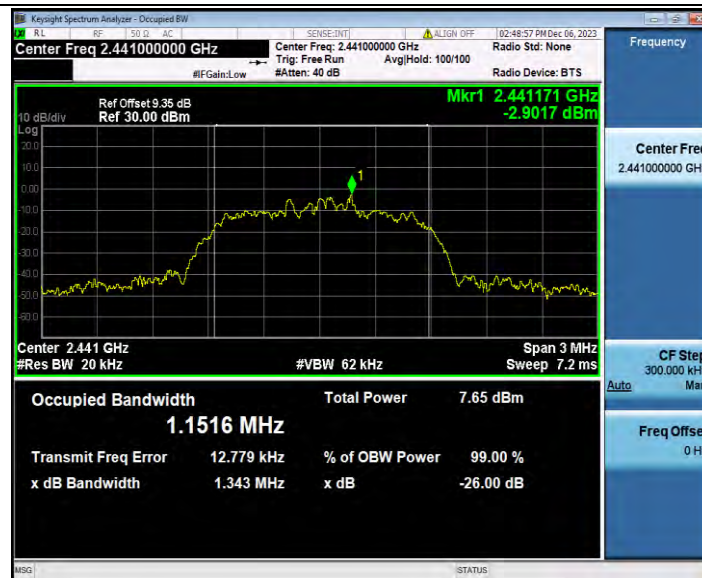
2DH1_Ant1_2441



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	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	4.27	≤30.00	PASS
		2441	4.27	≤30.00	PASS
		2480	4.17	≤30.00	PASS
2DH1	Ant1	2402	3.5	≤20.97	PASS
		2441	3.53	≤20.97	PASS
		2480	3.57	≤20.97	PASS
3DH1	Ant1	2402	3.93	≤20.97	PASS
		2441	3.92	≤20.97	PASS
		2480	3.75	≤20.97	PASS

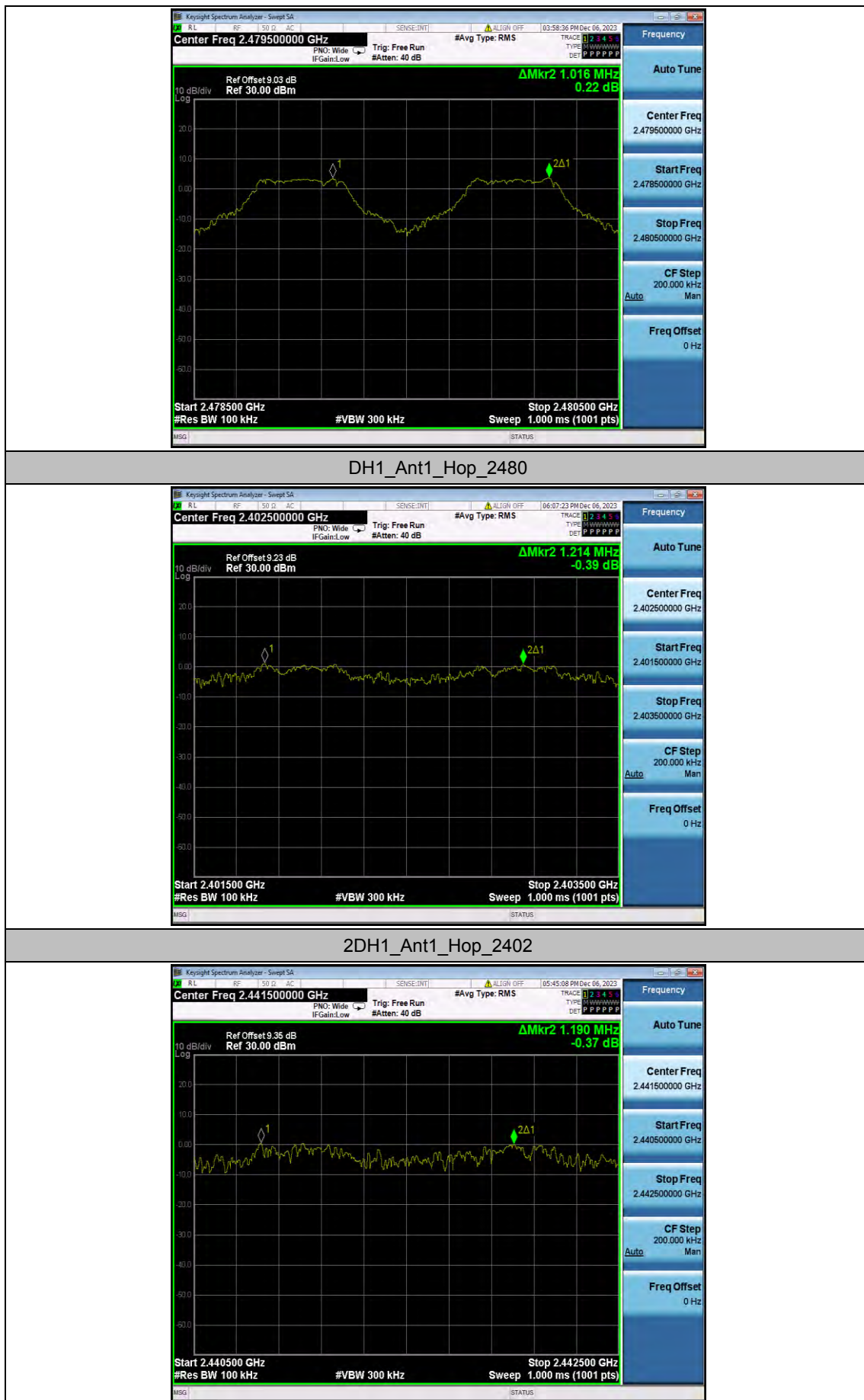
Appendix A.4: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.326	≥ 0.960	PASS
		Hop_2441	1	≥ 0.960	PASS
		Hop_2480	1.016	≥ 0.960	PASS
2DH1	Ant1	Hop_2402	1.214	≥ 0.872	PASS
		Hop_2441	1.19	≥ 0.872	PASS
		Hop_2480	1.01	≥ 0.872	PASS
3DH1	Ant1	Hop_2402	0.988	≥ 0.842	PASS
		Hop_2441	1.004	≥ 0.842	PASS
		Hop_2480	0.998	≥ 0.842	PASS

Test Graphs





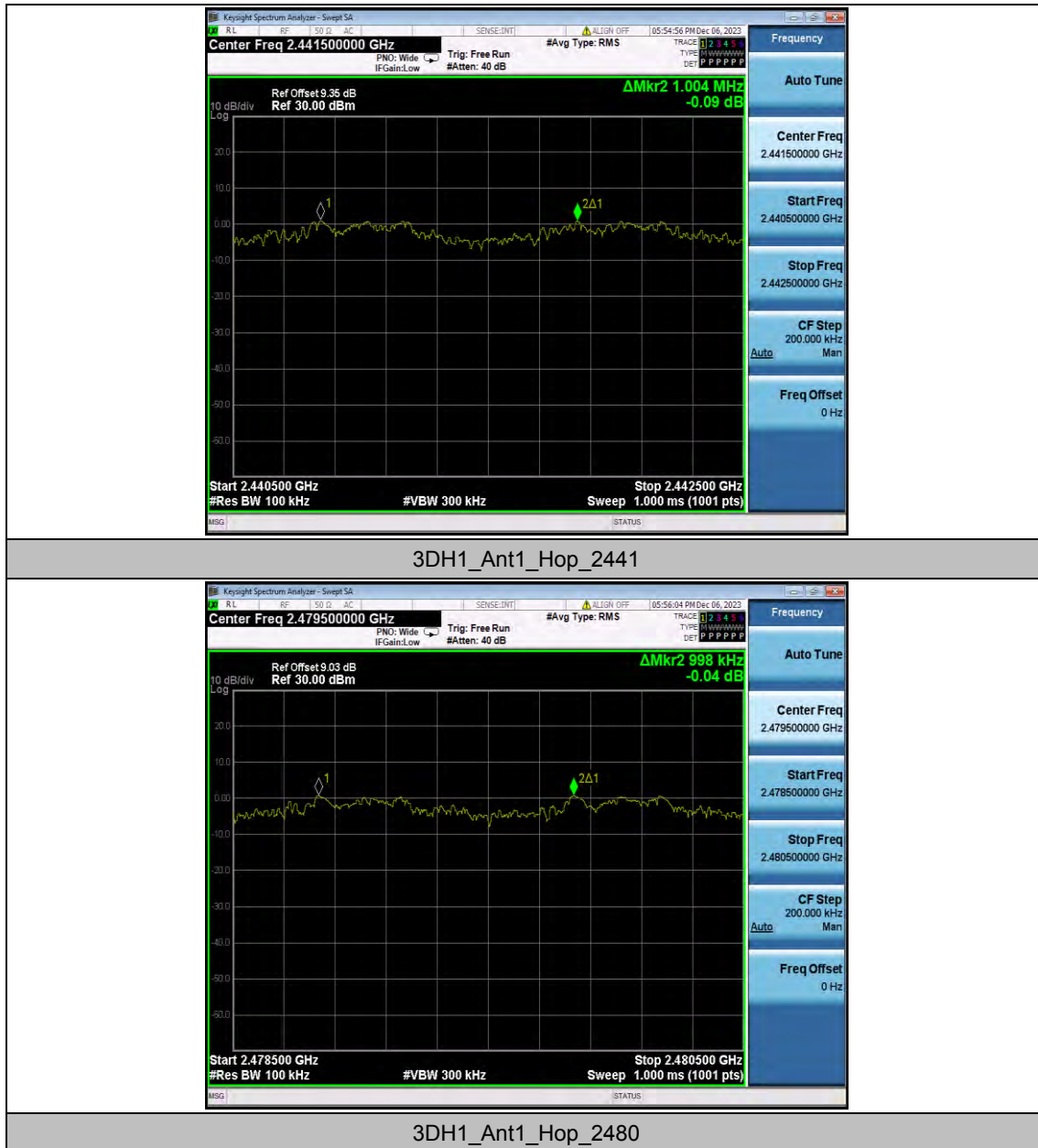
2DH1_Ant1_Hop_2441



2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402

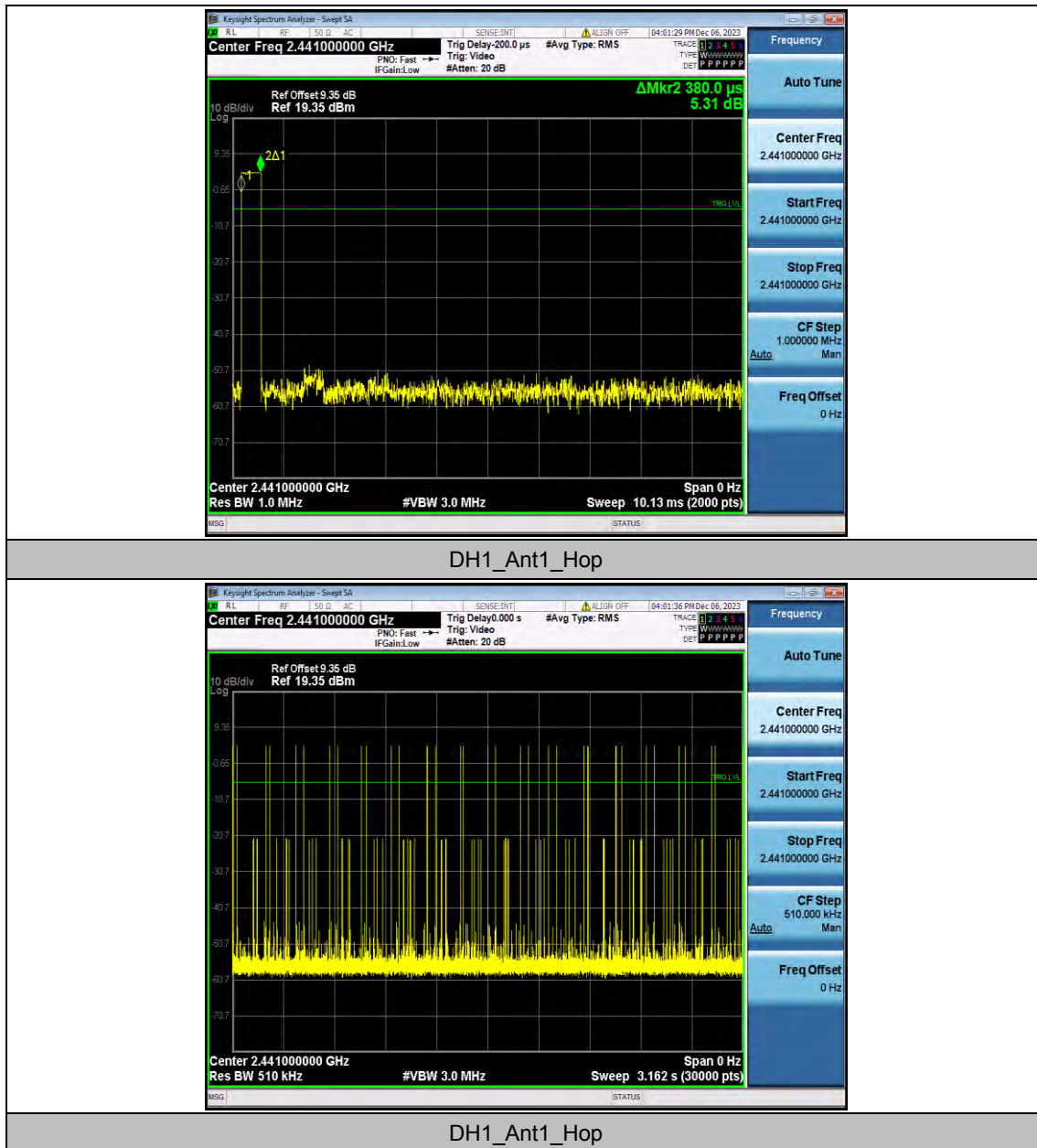


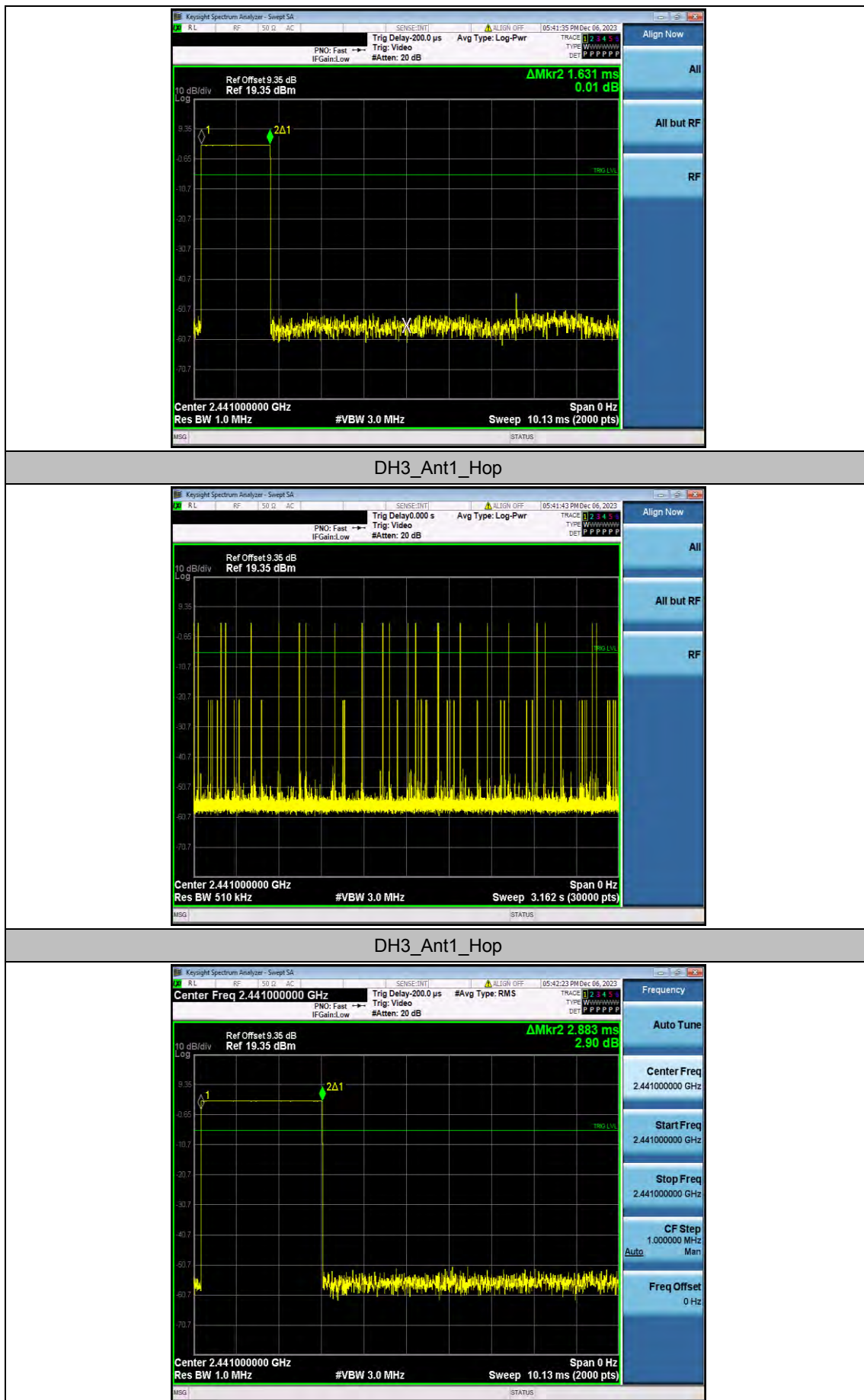
Appendix A.5: Time of occupancy

Test Result

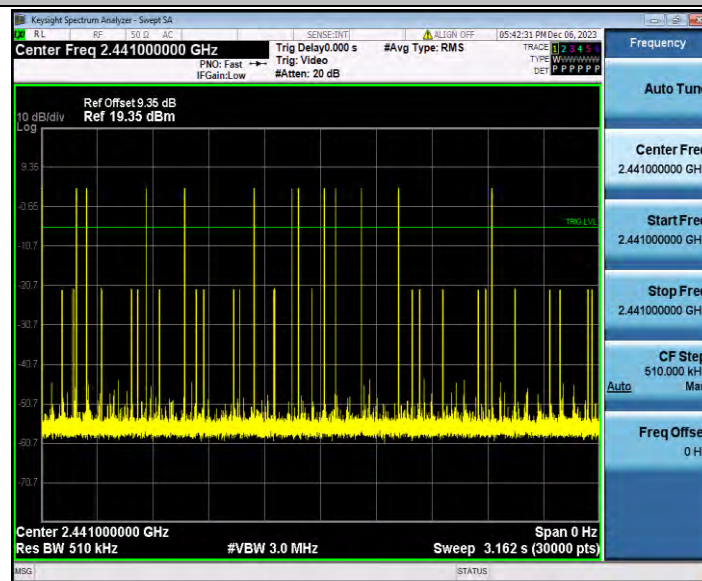
Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
DH3	Ant1	Hop	1.63	240	0.392	≤0.4	PASS
DH5	Ant1	Hop	2.88	130	0.375	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.63	170	0.277	≤0.4	PASS
2DH5	Ant1	Hop	2.88	60	0.173	≤0.4	PASS
3DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.63	170	0.277	≤0.4	PASS
3DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS

Test Graphs

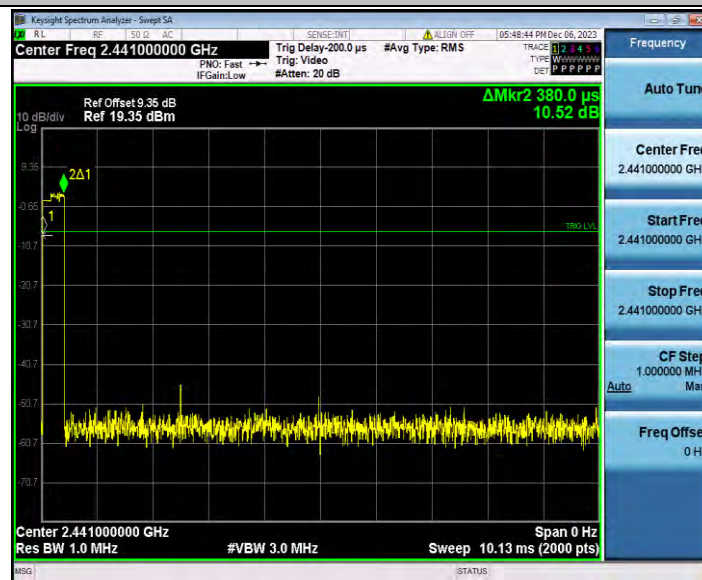




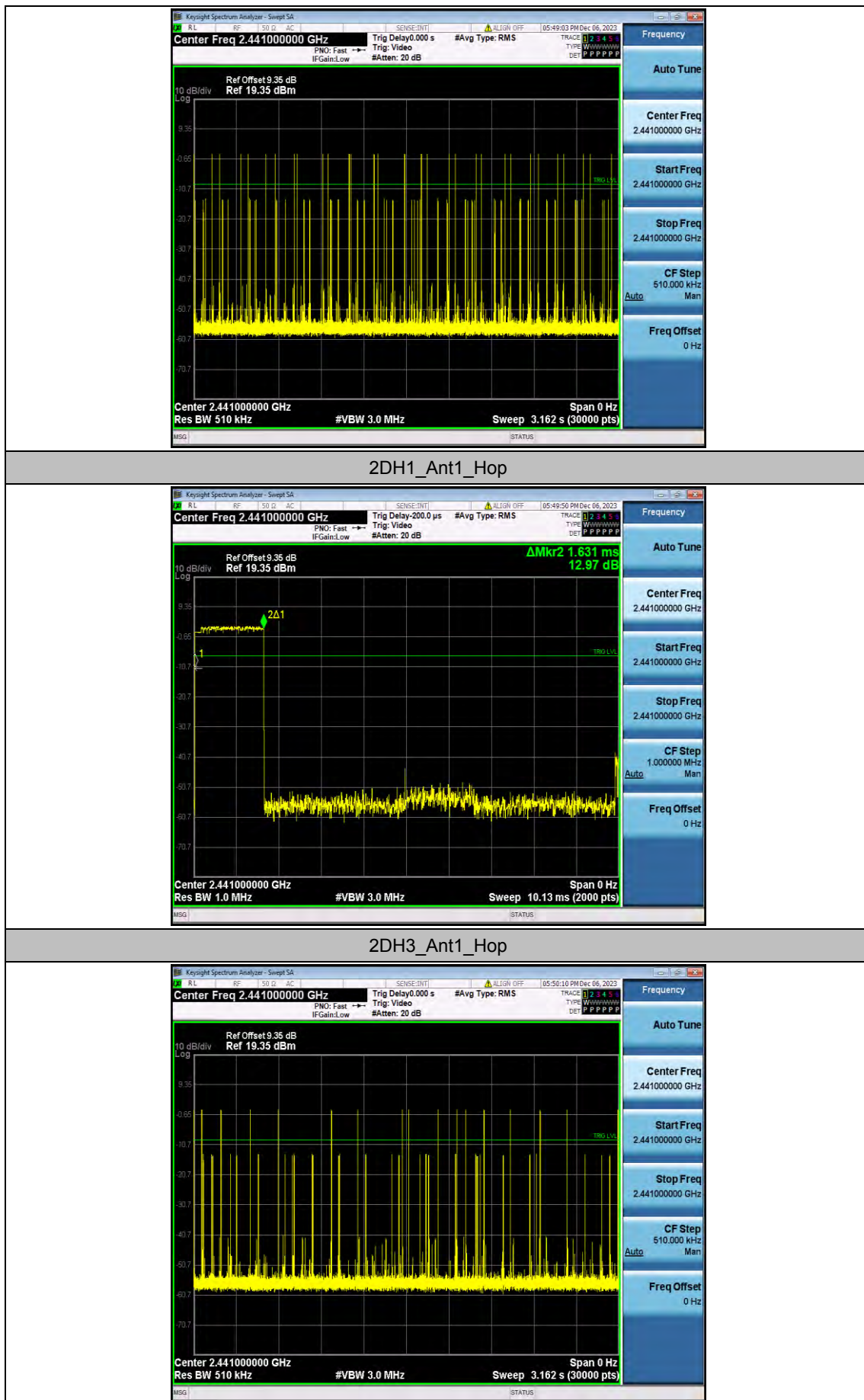
DH5_Ant1_Hop



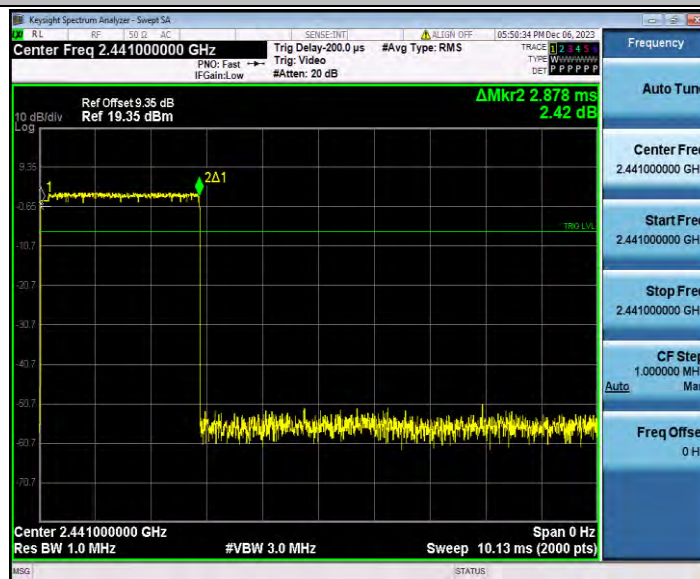
DH5_Ant1_Hop



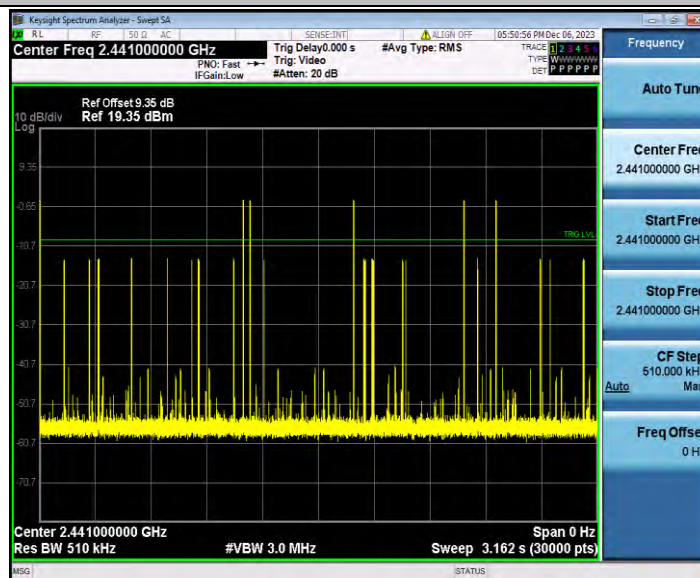
2DH1_Ant1_Hop



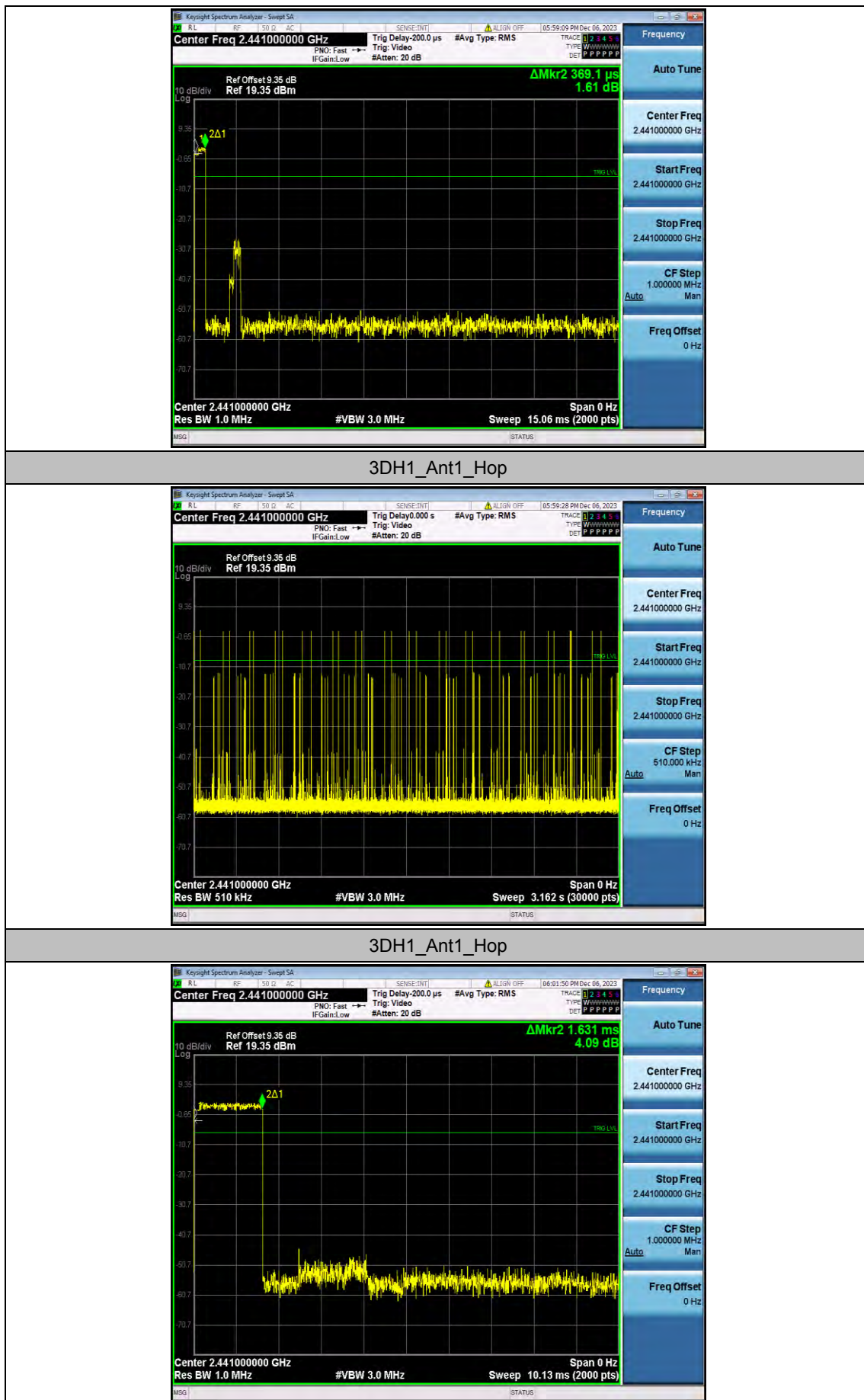
2DH3_Ant1_Hop



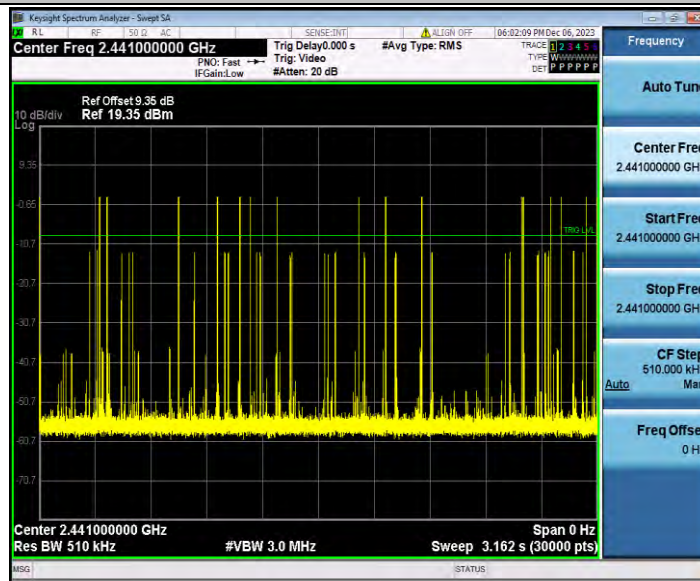
2DH5_Ant1_Hop



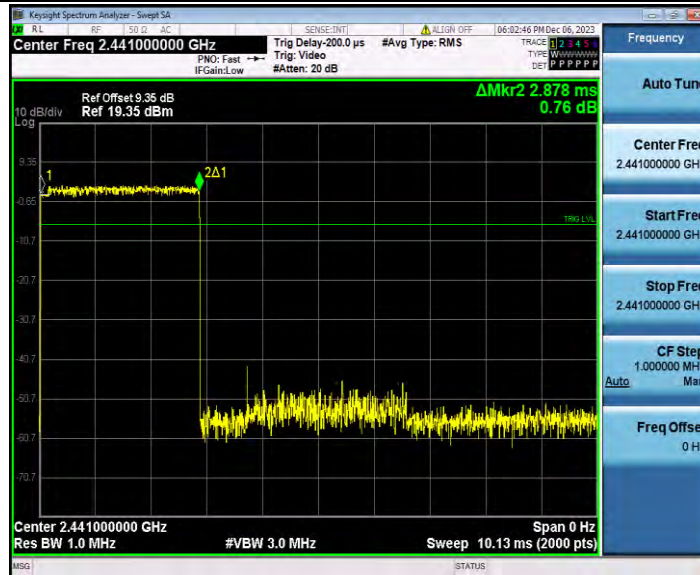
2DH5_Ant1_Hop



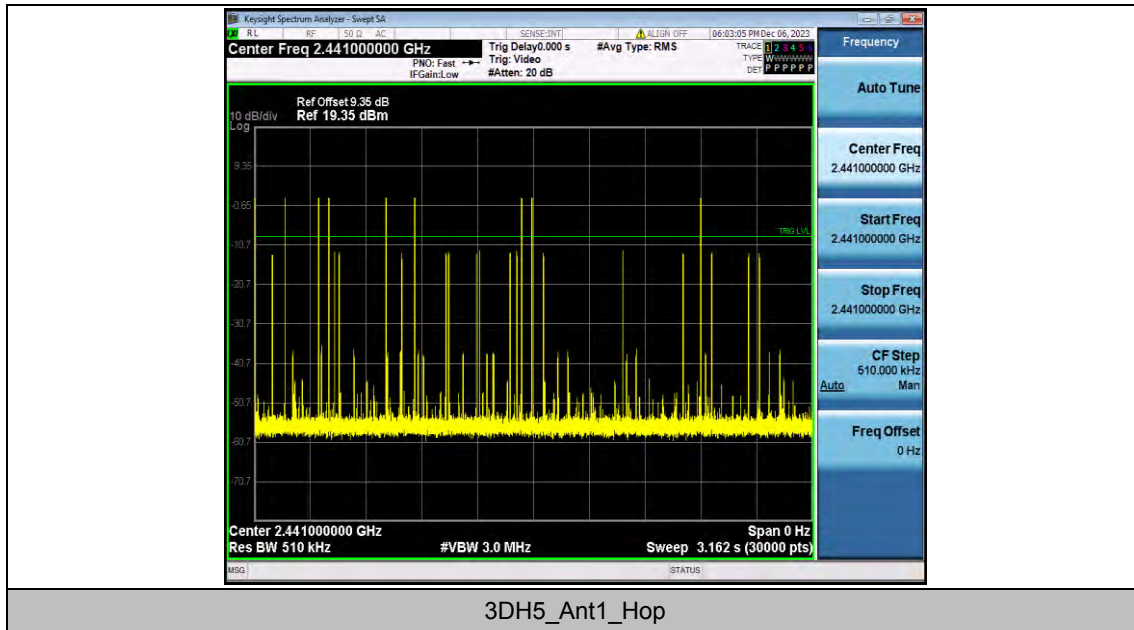
3DH3_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

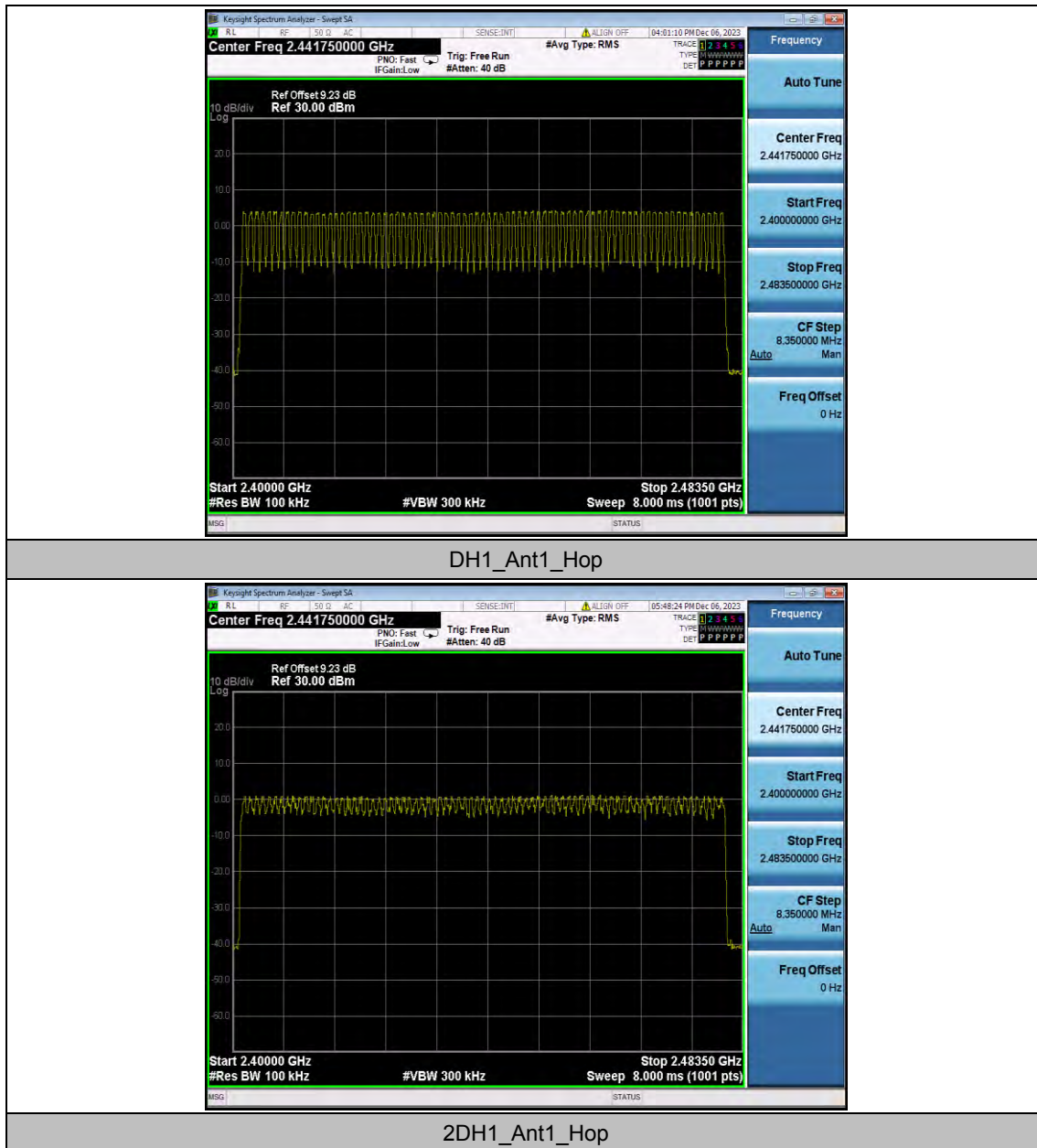


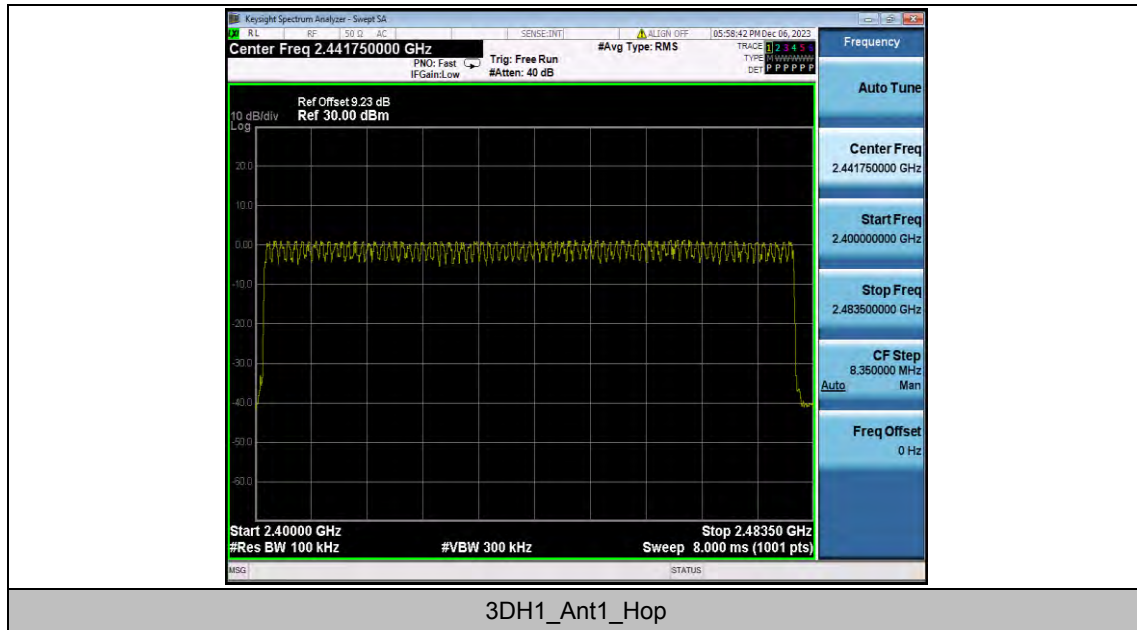
Appendix A.6: Number of hopping channels

Test Result

Test Mode	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



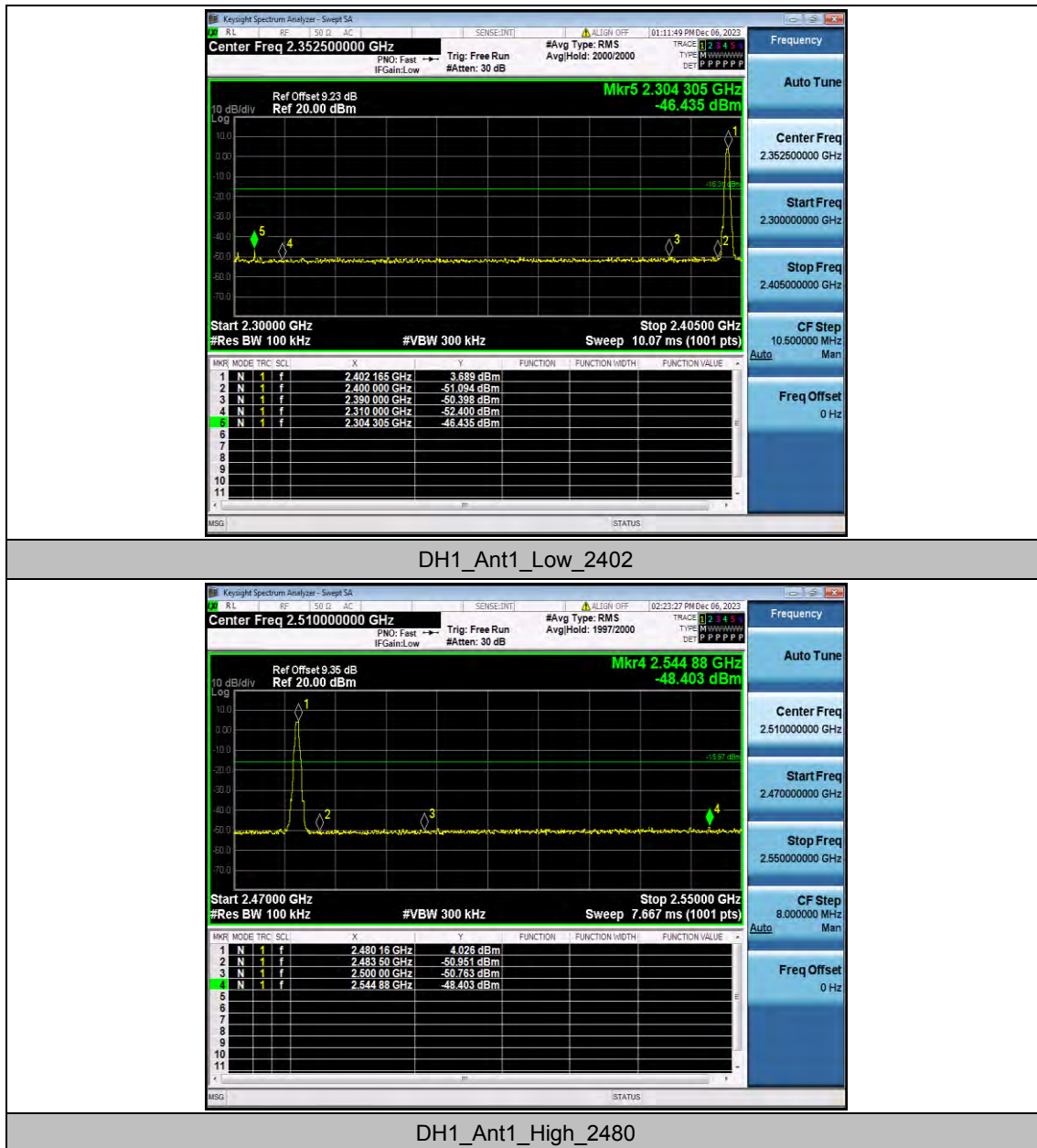


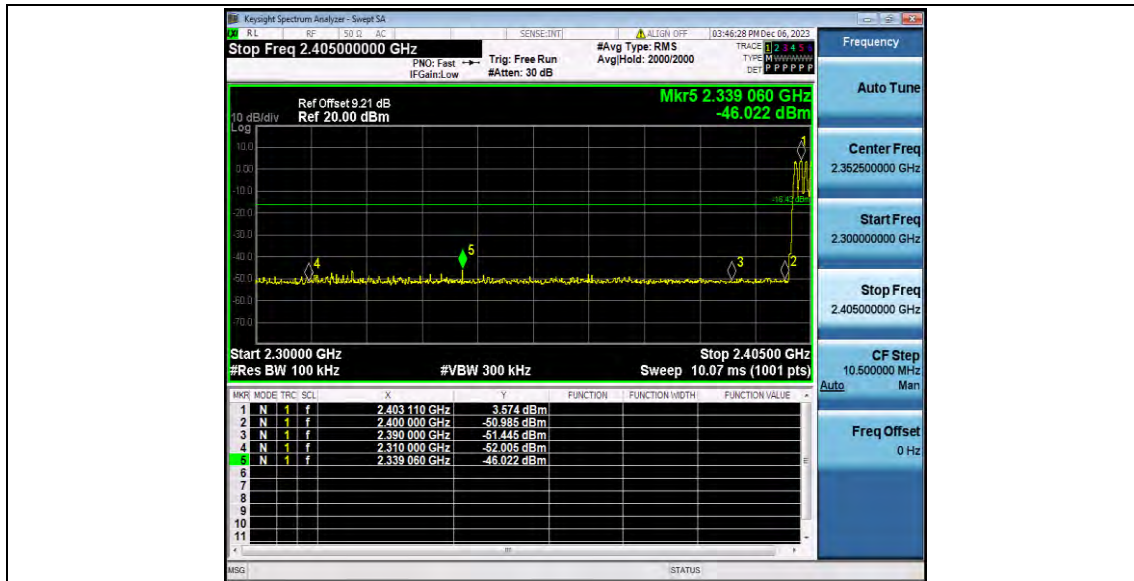
Appendix A.7: Band edge measurements

Test Result

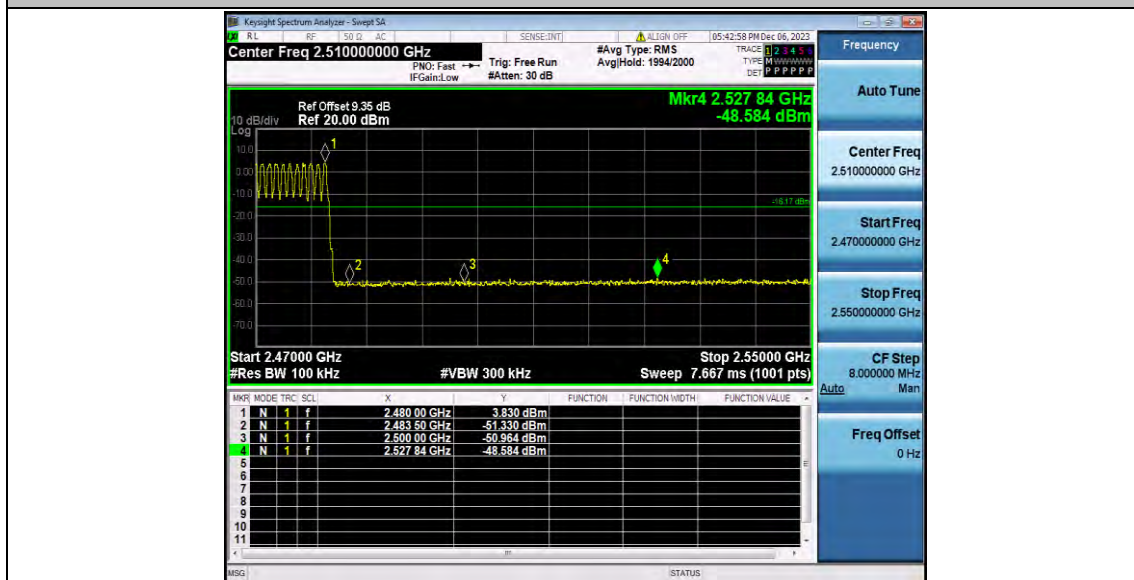
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	3.69	-46.44	≤ -16.31	PASS
		High	2480	4.03	-48.4	≤ -15.97	PASS
		Low	Hop_2402	3.57	-46.02	≤ -16.43	PASS
		High	Hop_2480	3.83	-48.58	≤ -16.17	PASS
2DH1	Ant1	Low	2402	0.87	-48.39	≤ -19.13	PASS
		High	2480	0.81	-48.27	≤ -19.2	PASS
		Low	Hop_2402	0.84	-49.5	≤ -19.16	PASS
		High	Hop_2480	0.95	-48.36	≤ -19.05	PASS
3DH1	Ant1	Low	2402	1.00	-46.8	≤ -19	PASS
		High	2480	0.94	-48.26	≤ -19.06	PASS
		Low	Hop_2402	0.71	-49.43	≤ -19.29	PASS
		High	Hop_2480	0.99	-48.43	≤ -19.01	PASS

Test Graphs

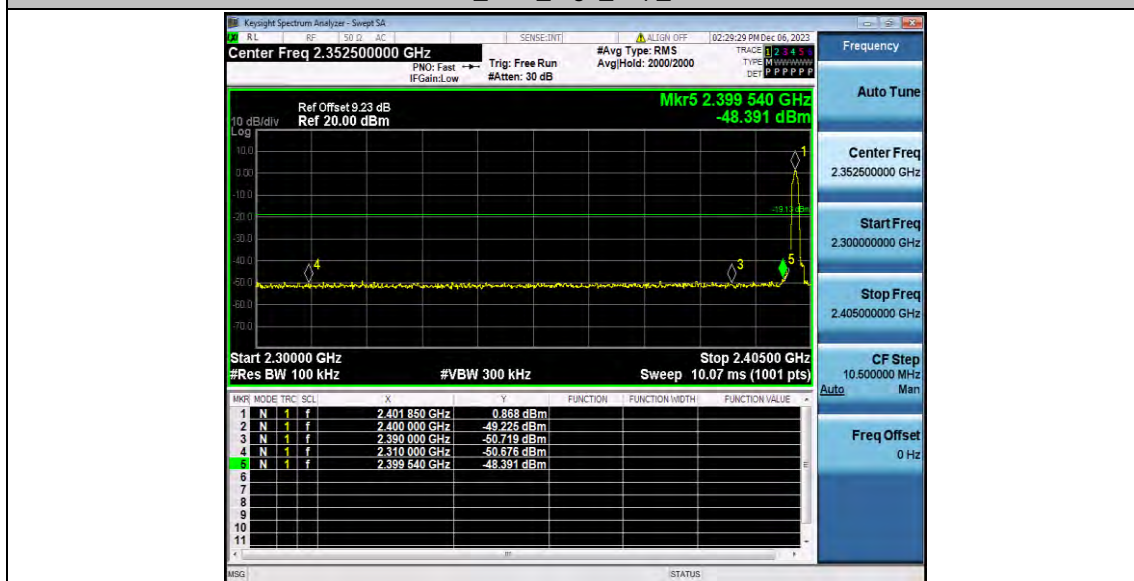




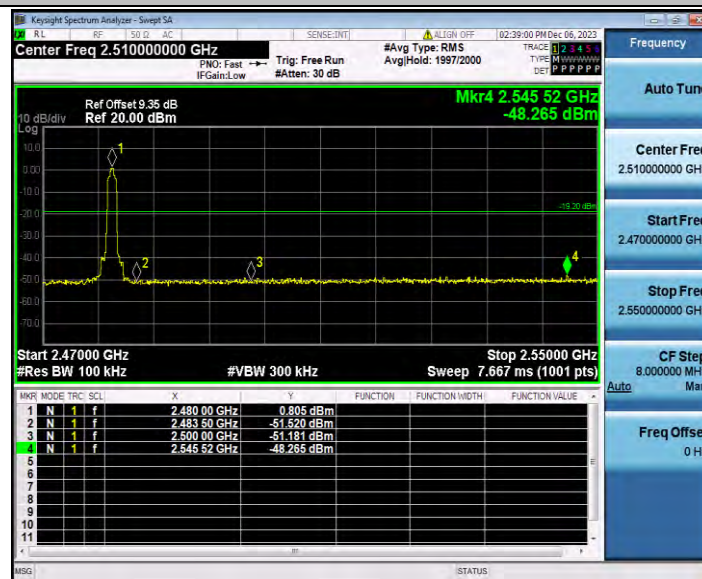
DH1_Ant1_Low_Hop_2402



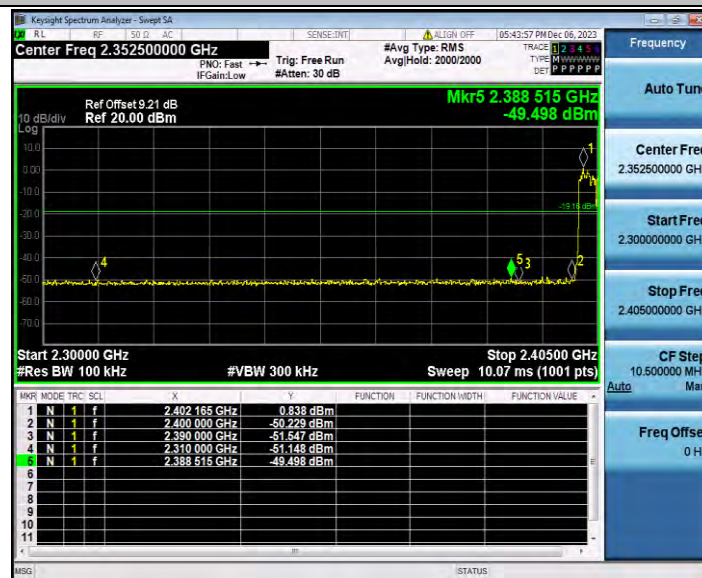
DH1_Ant1_High_Hop_2480



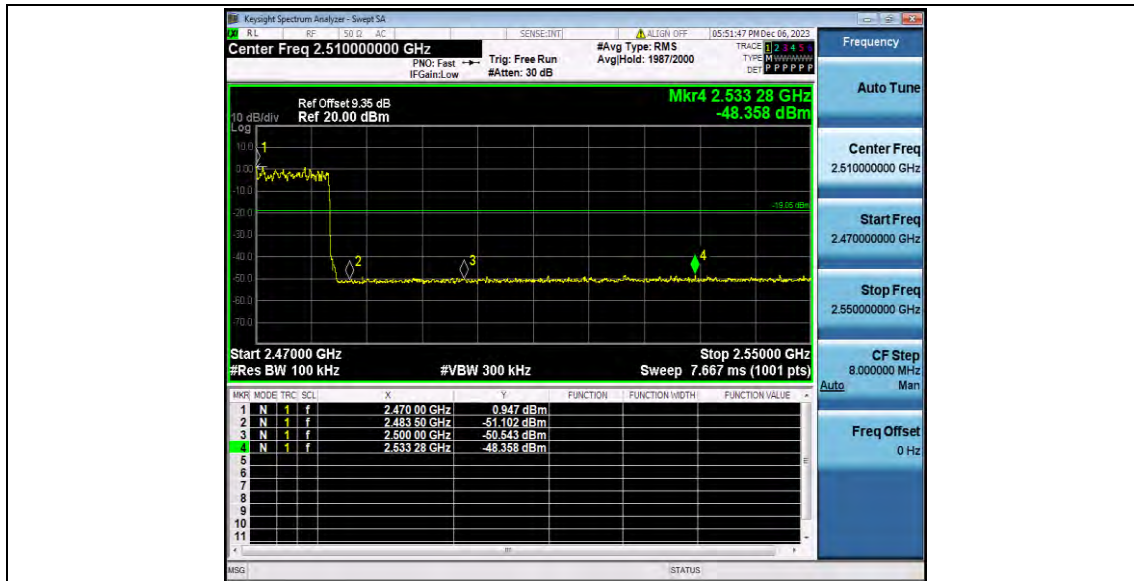
2DH1_Ant1_Low_2402



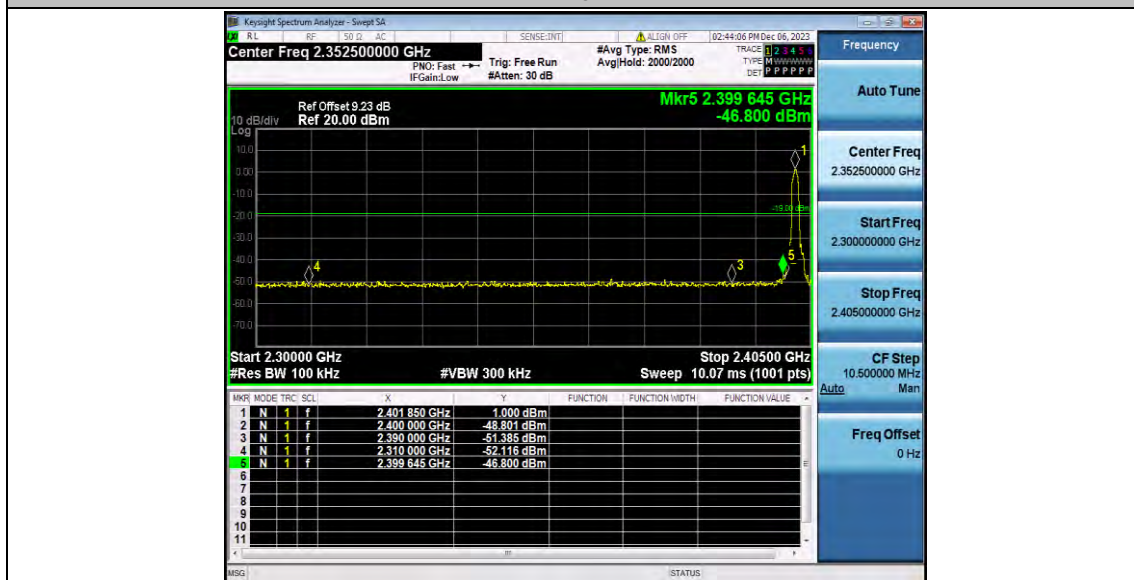
2DH1_Ant1_High_2480



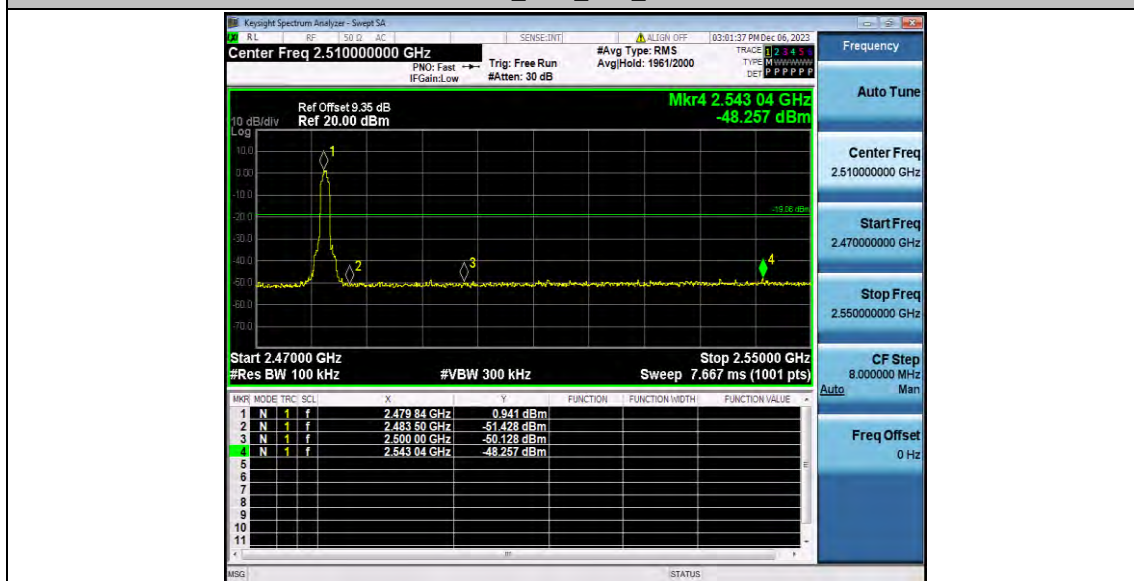
2DH1_Ant1_Low_Hop_2402



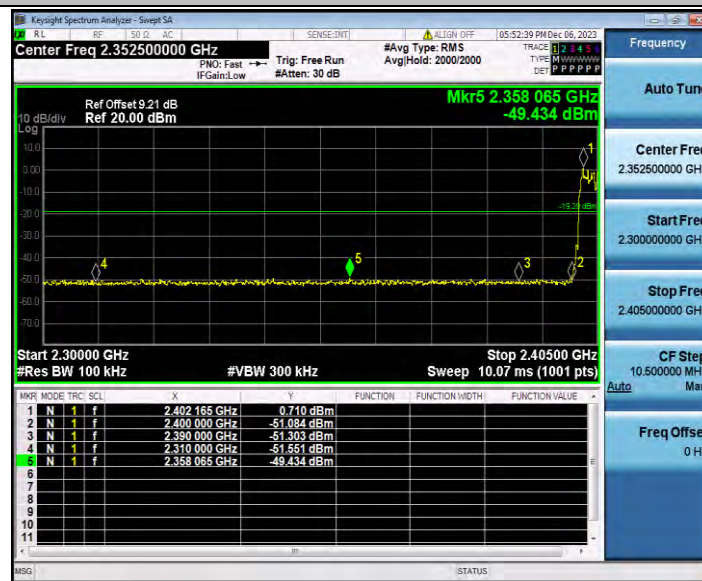
2D1H_Ant1_High_Hop_2480



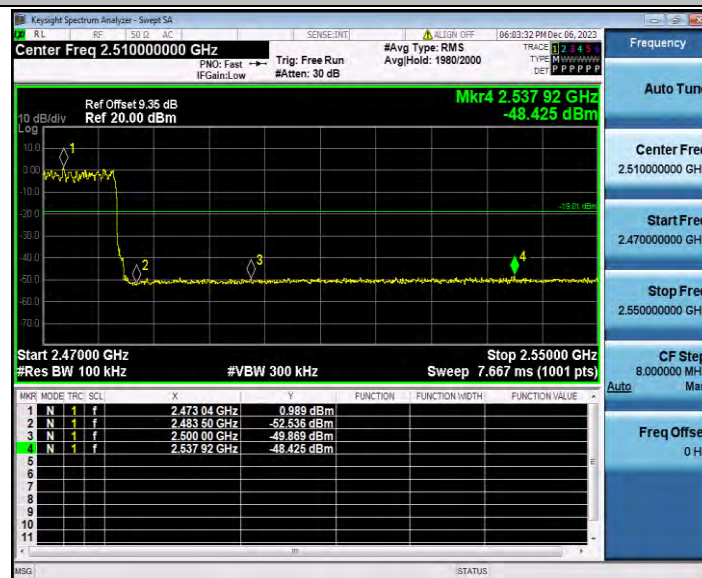
3D1H_Ant1_Low_2402



3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



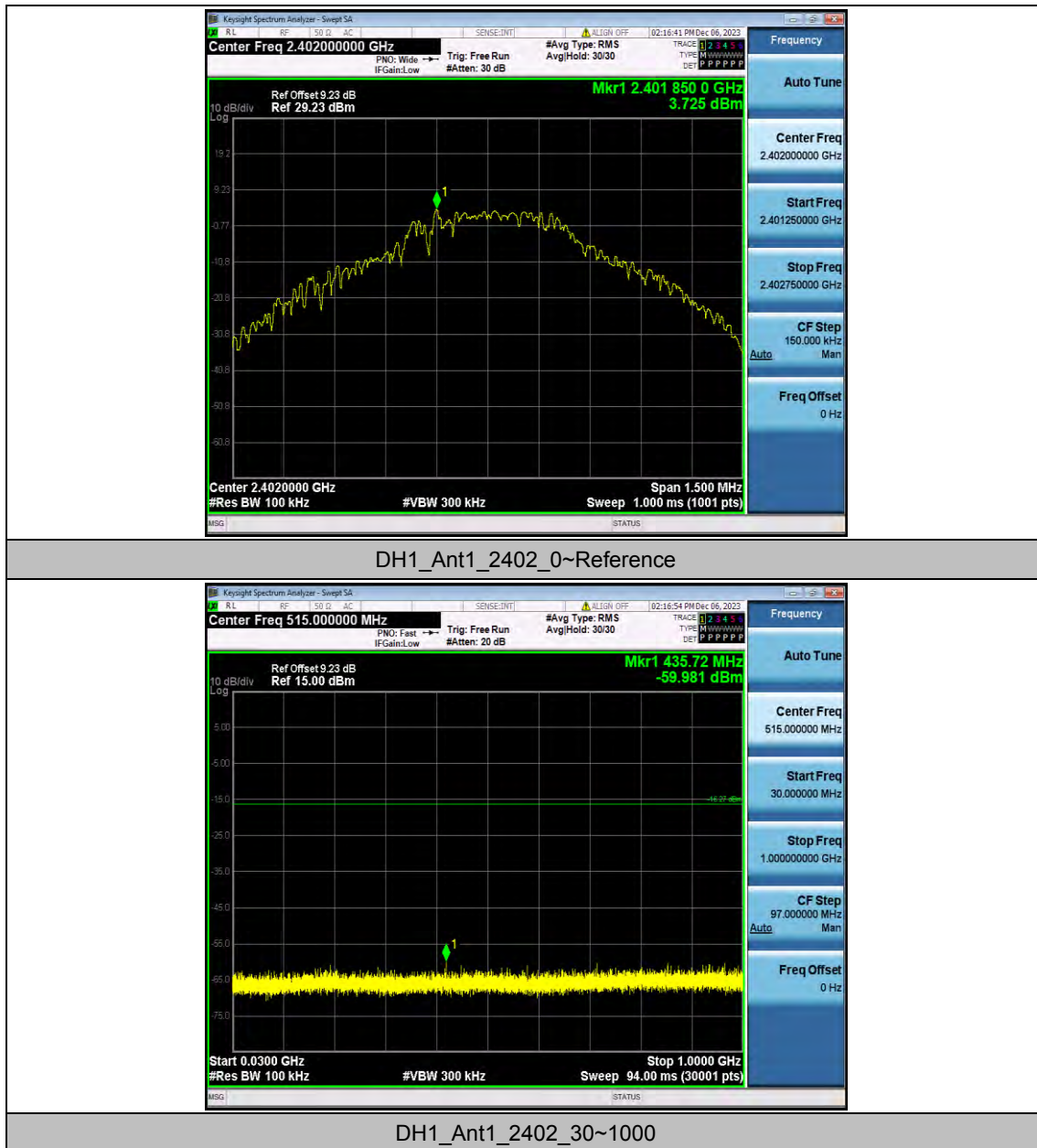
3DH1_Ant1_High_Hop_2480

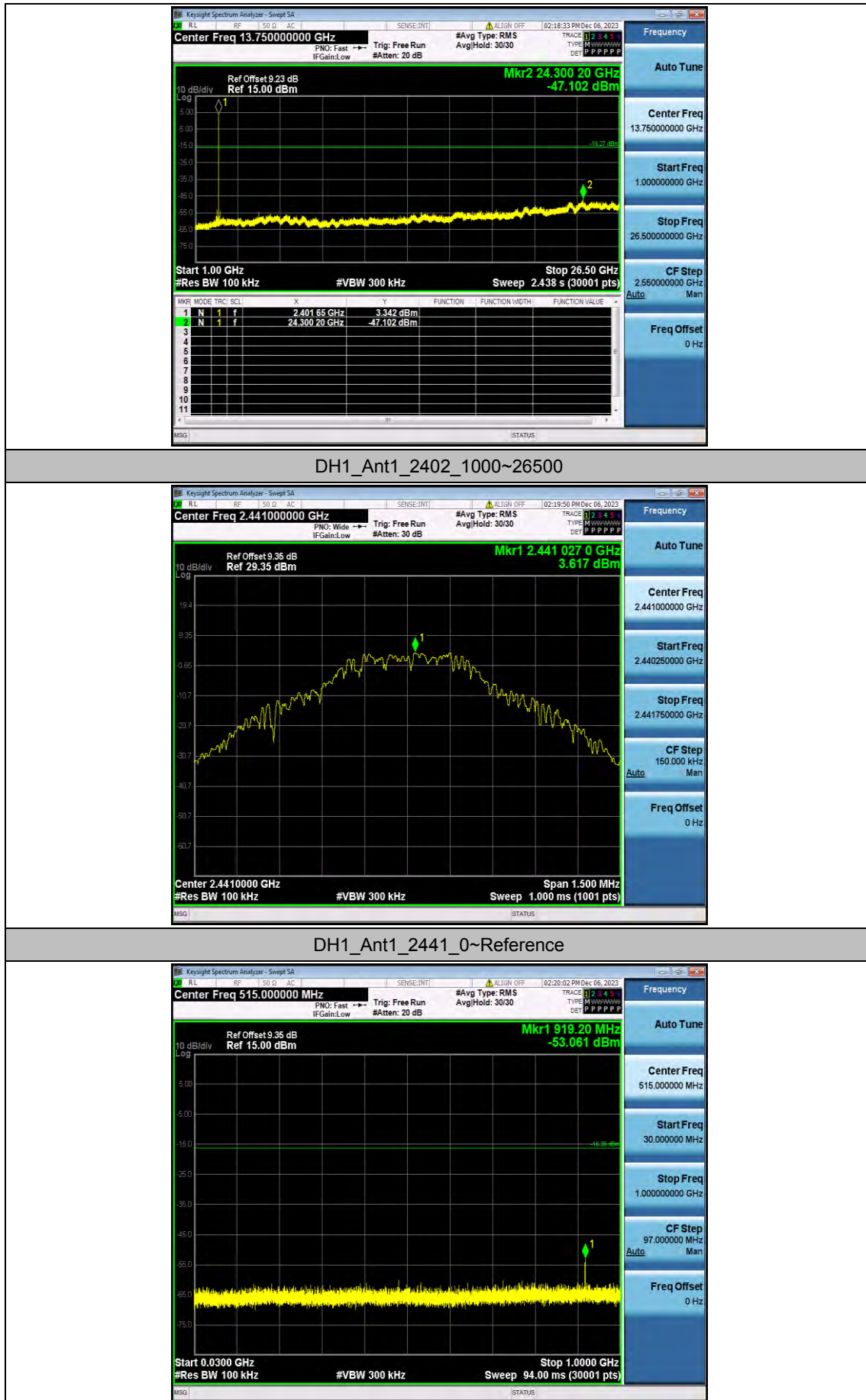
Appendix A.8: Conducted Spurious Emission

Test Result

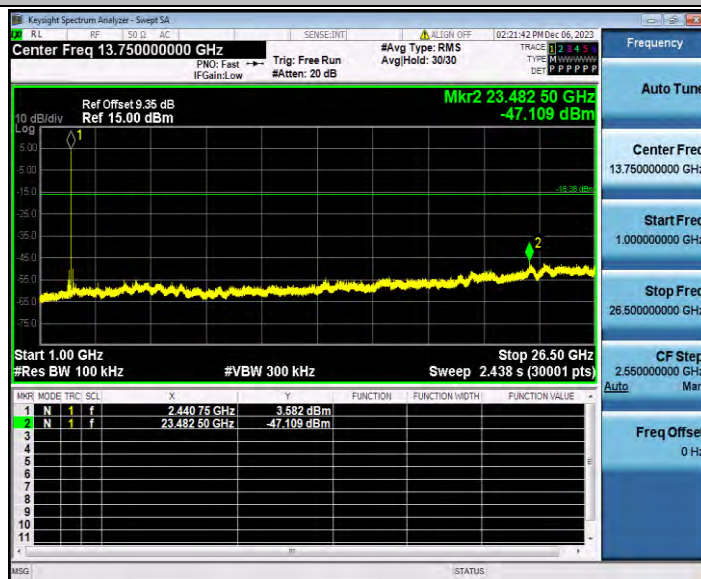
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	3.73	3.73	---	PASS
			30~1000	3.73	-59.98	≤ -16.27	PASS
			1000~26500	3.73	-47.1	≤ -16.27	PASS
		2441	Reference	3.62	3.62	---	PASS
			30~1000	3.62	-53.06	≤ -16.38	PASS
			1000~26500	3.62	-47.11	≤ -16.38	PASS
		2480	Reference	3.73	3.73	---	PASS
			30~1000	3.73	-60.24	≤ -16.27	PASS
			1000~26500	3.73	-47.35	≤ -16.27	PASS
2DH1	Ant1	2402	Reference	0.64	0.64	---	PASS
			30~1000	0.64	-60.14	≤ -19.36	PASS
			1000~26500	0.64	-47.73	≤ -19.36	PASS
		2441	Reference	0.59	0.59	---	PASS
			30~1000	0.59	-59.69	≤ -19.41	PASS
			1000~26500	0.59	-46.73	≤ -19.41	PASS
		2480	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-59.57	≤ -19.53	PASS
			1000~26500	0.47	-47.58	≤ -19.53	PASS
3DH1	Ant1	2402	Reference	0.76	0.76	---	PASS
			30~1000	0.76	-60.16	≤ -19.24	PASS
			1000~26500	0.76	-47.57	≤ -19.24	PASS
		2441	Reference	0.54	0.54	---	PASS
			30~1000	0.54	-60.65	≤ -19.46	PASS
			1000~26500	0.54	-47.89	≤ -19.46	PASS
		2480	Reference	0.70	0.70	---	PASS
			30~1000	0.70	-60.07	≤ -19.3	PASS
			1000~26500	0.70	-47.03	≤ -19.3	PASS

Test Graphs





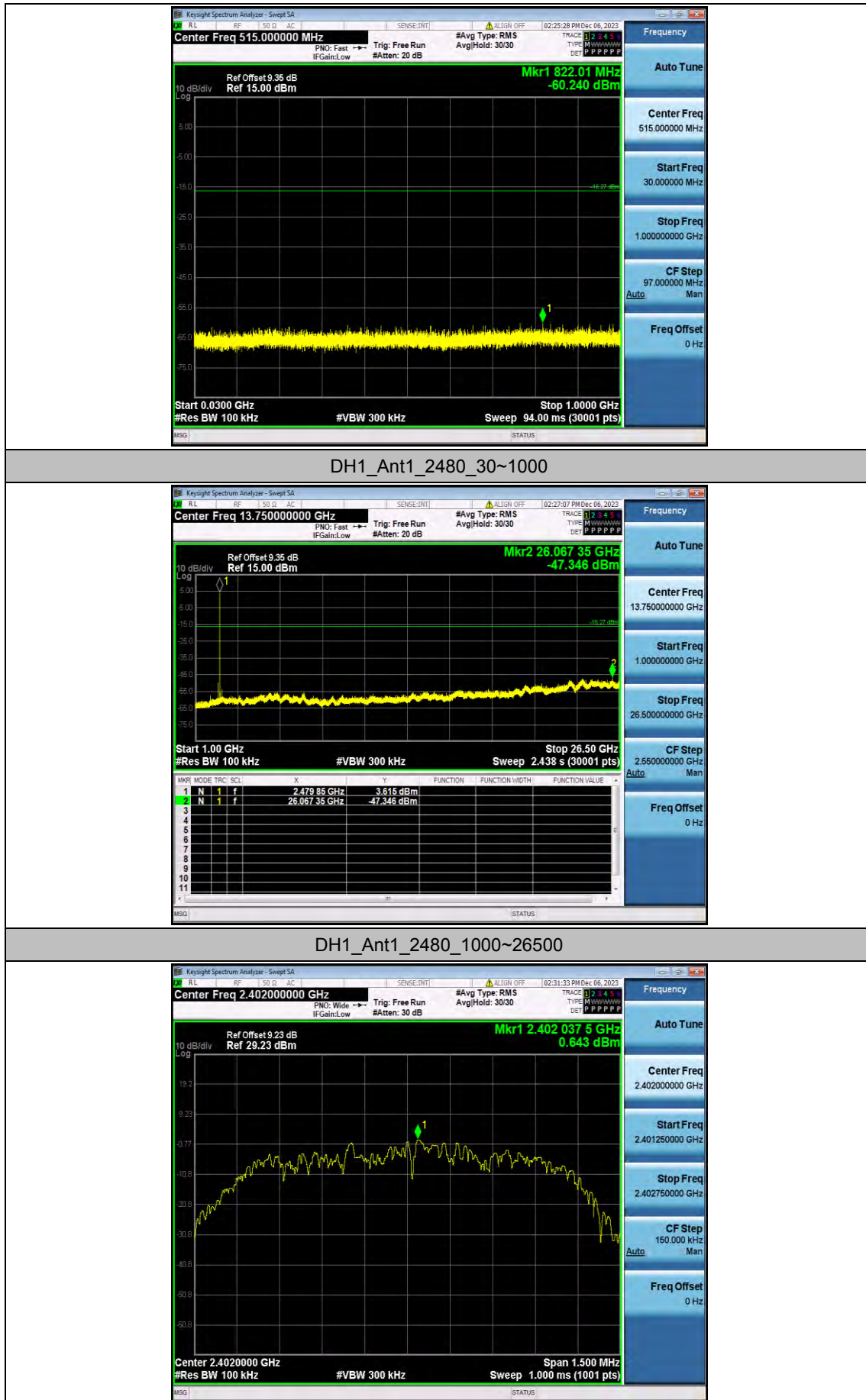
DH1_Ant1_2441_30~1000



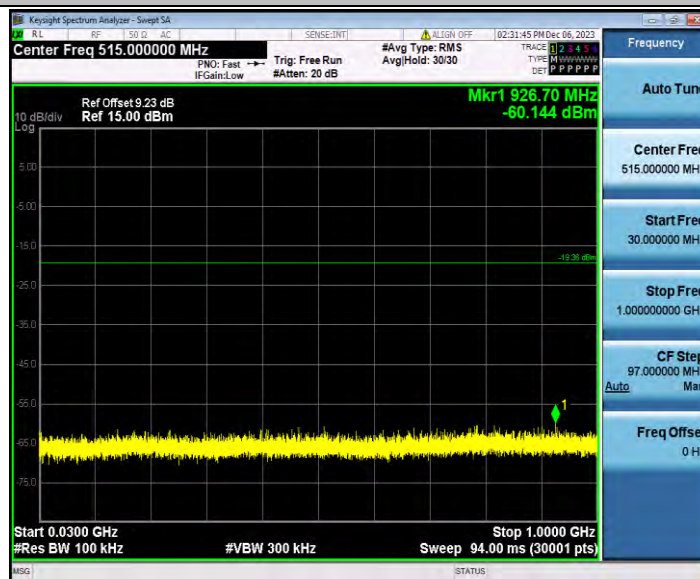
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



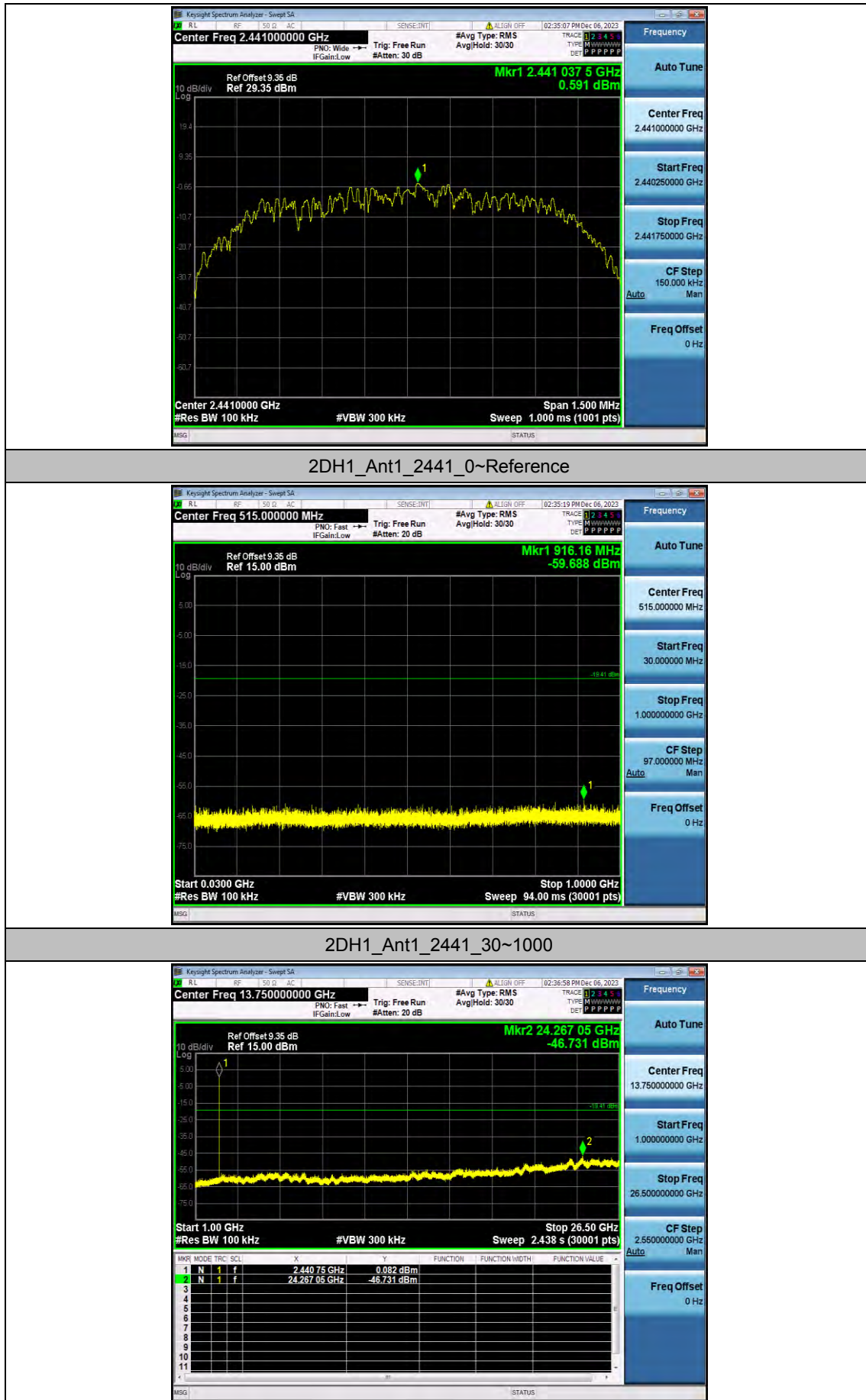
2DH1_Ant1_2402_0~Reference



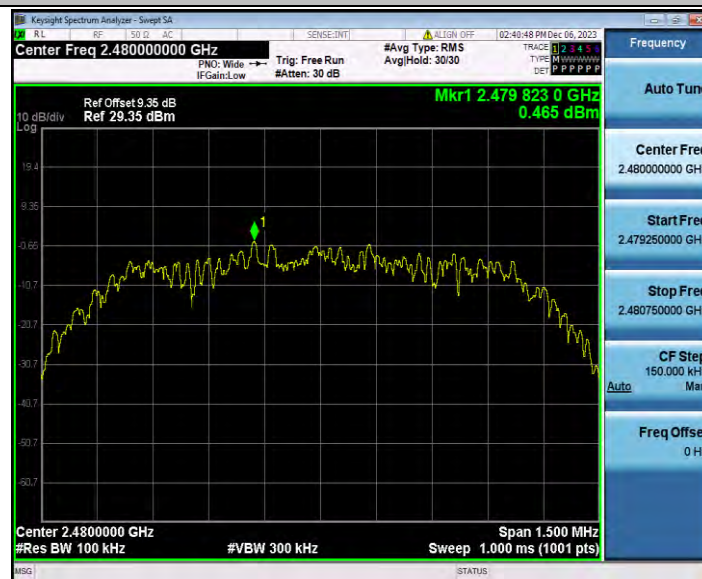
2DH1_Ant1_2402_30~1000



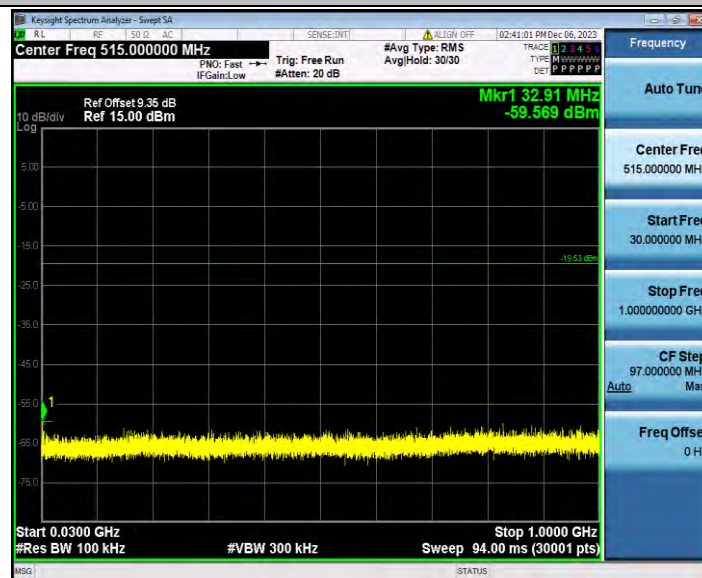
2DH1_Ant1_2402_1000~26500



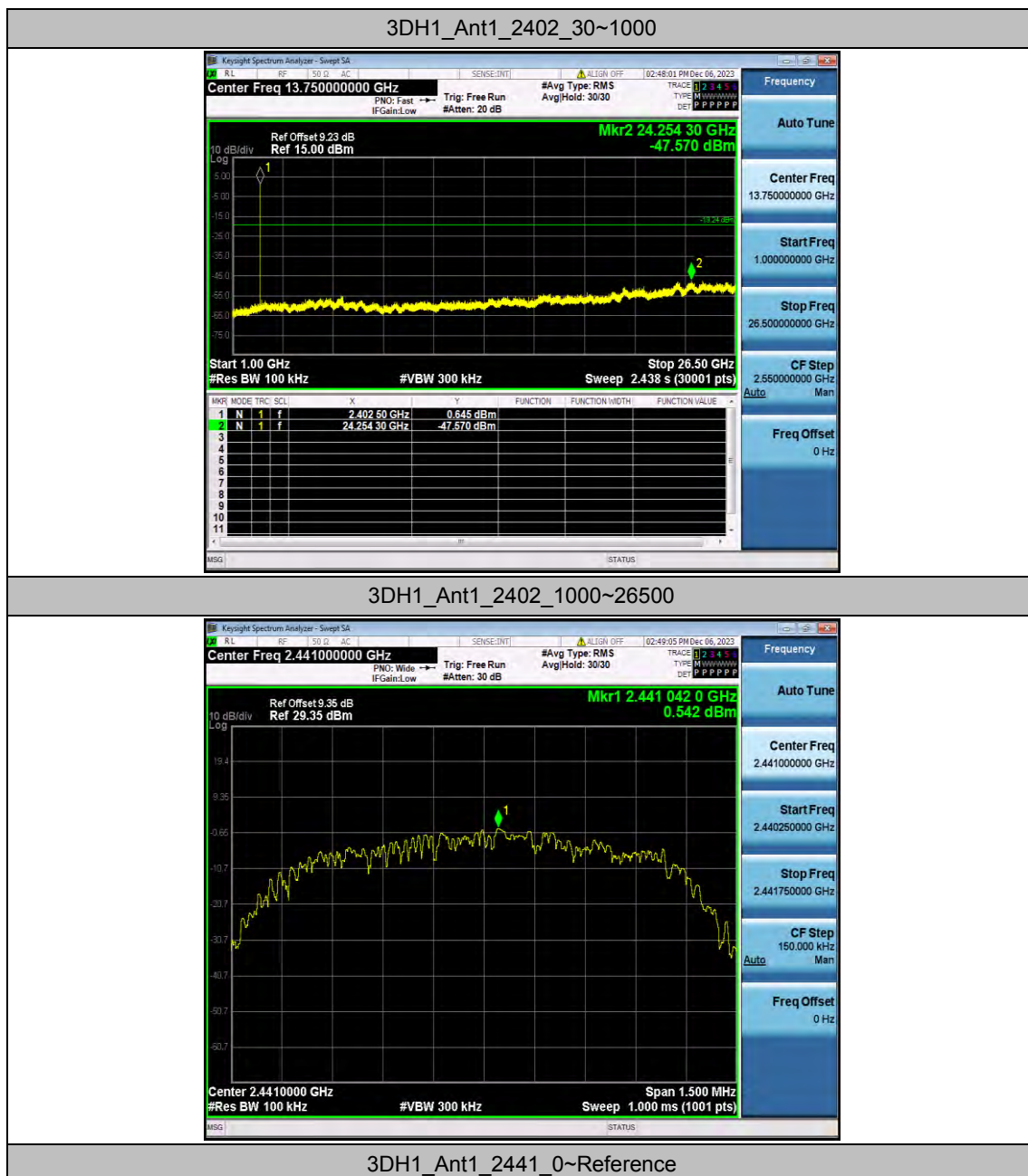
2DH1_Ant1_2441_1000~26500

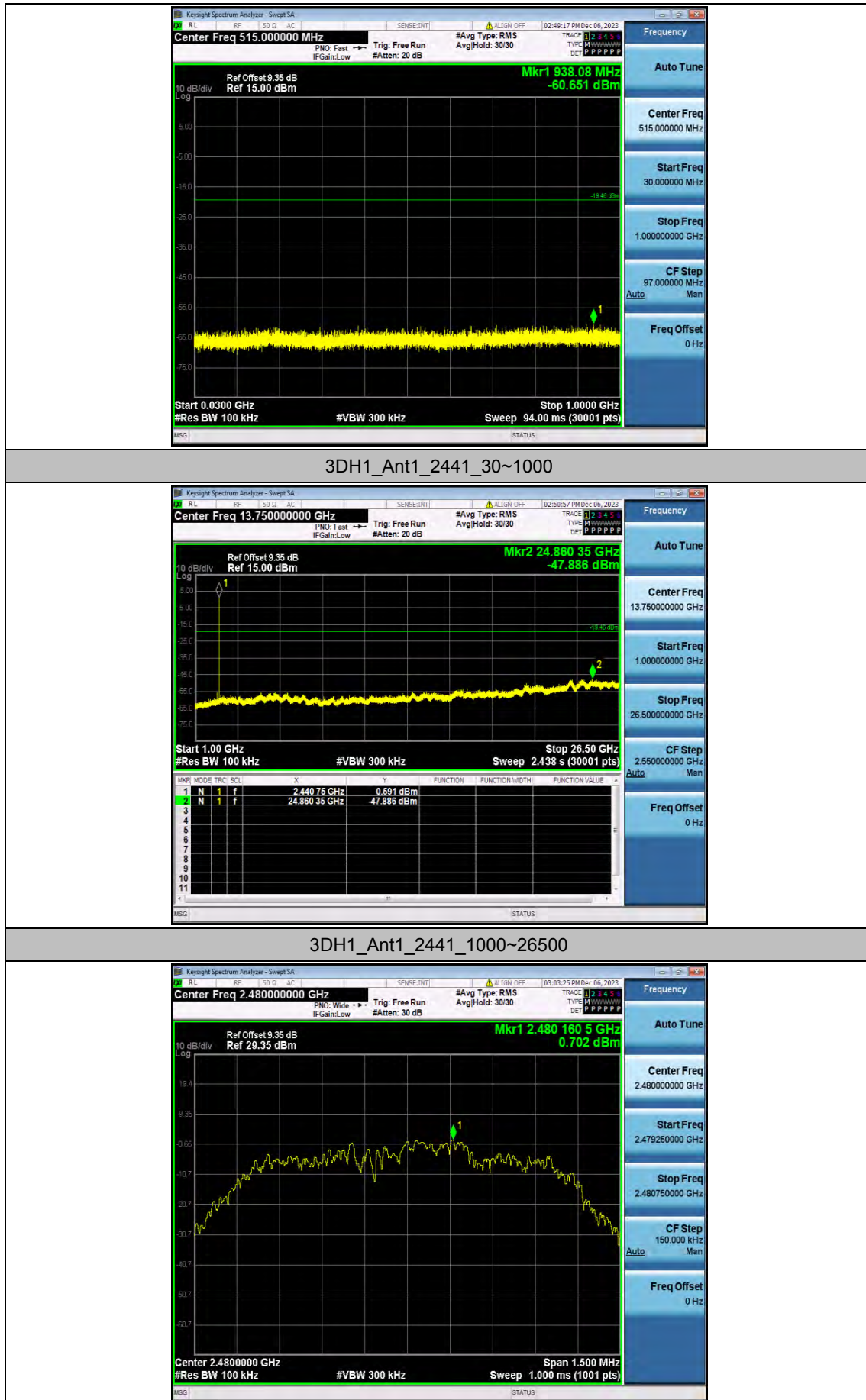


2DH1_Ant1_2480_0~Reference

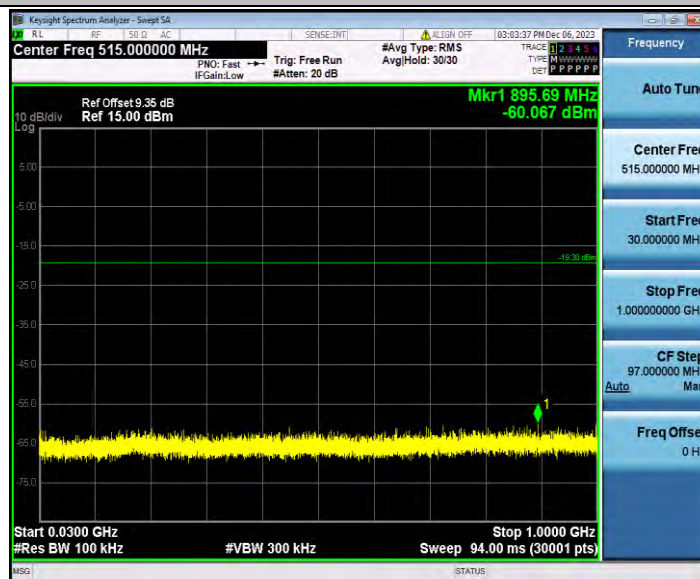


2DH1_Ant1_2480_30~1000





3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500