

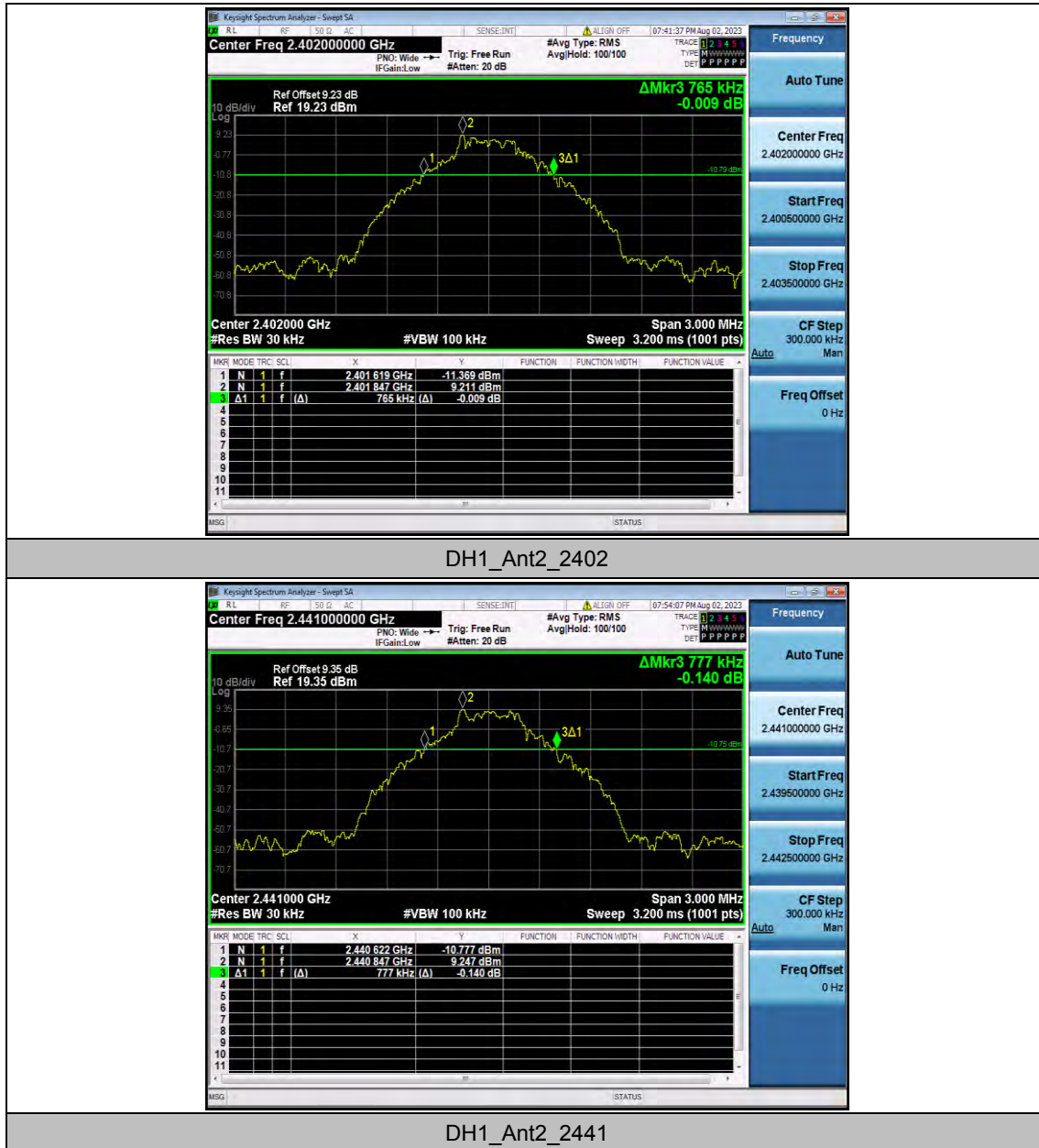
Case No. : <u>GTS20230704026-1-20</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.7.26</u>	Test Engineer: <u>Evan Ouyang</u>

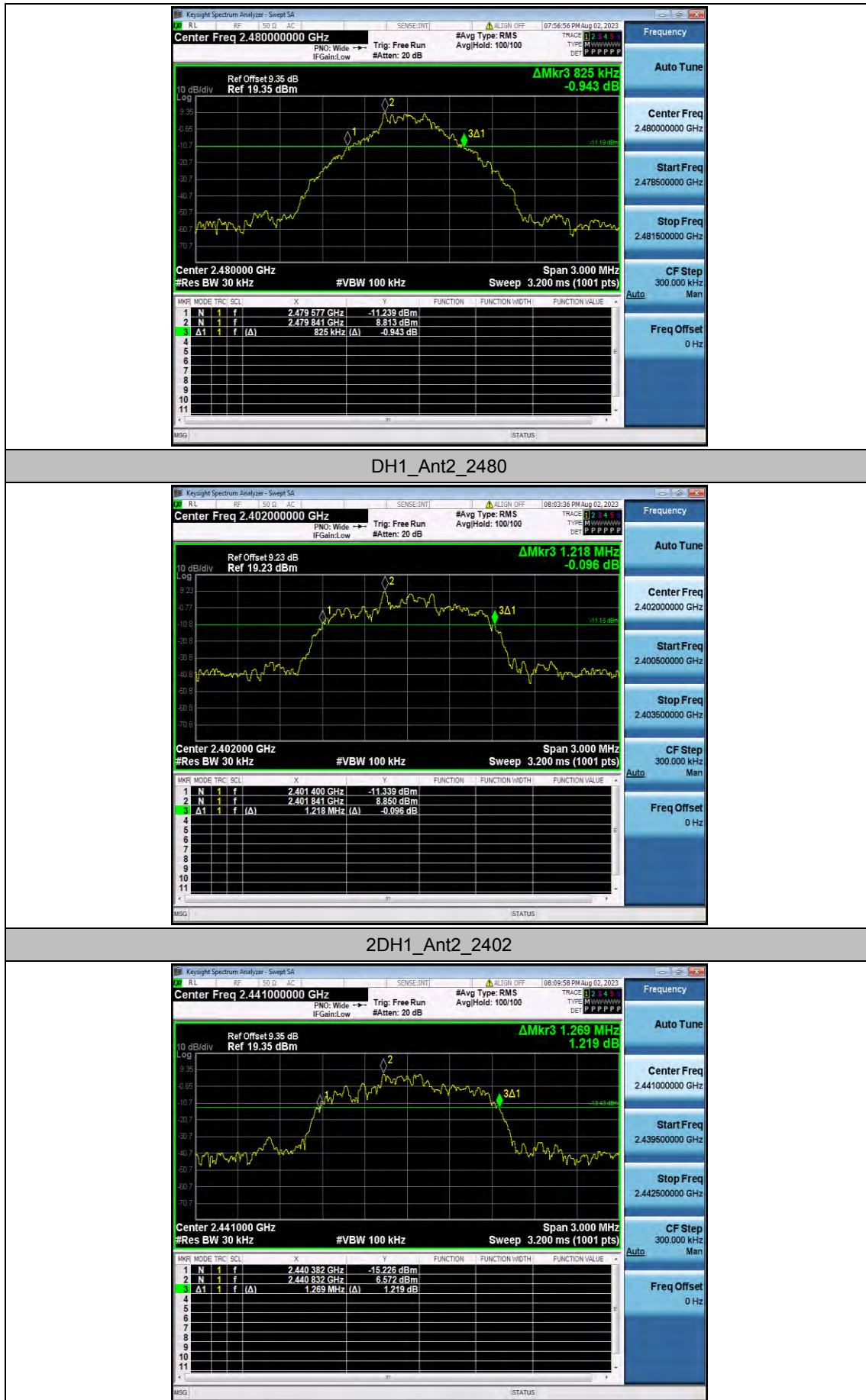
Appendix A.1: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant2	2402	0.765	2401.619	2402.384	---	---
		2441	0.777	2440.622	2441.399	---	---
		2480	0.825	2479.577	2480.402	---	---
2DH1	Ant2	2402	1.218	2401.400	2402.618	---	---
		2441	1.269	2440.382	2441.651	---	---
		2480	1.251	2479.370	2480.621	---	---
3DH1	Ant2	2402	1.215	2401.415	2402.630	---	---
		2441	1.251	2440.382	2441.633	---	---
		2480	1.248	2479.385	2480.633	---	---

Test Graphs





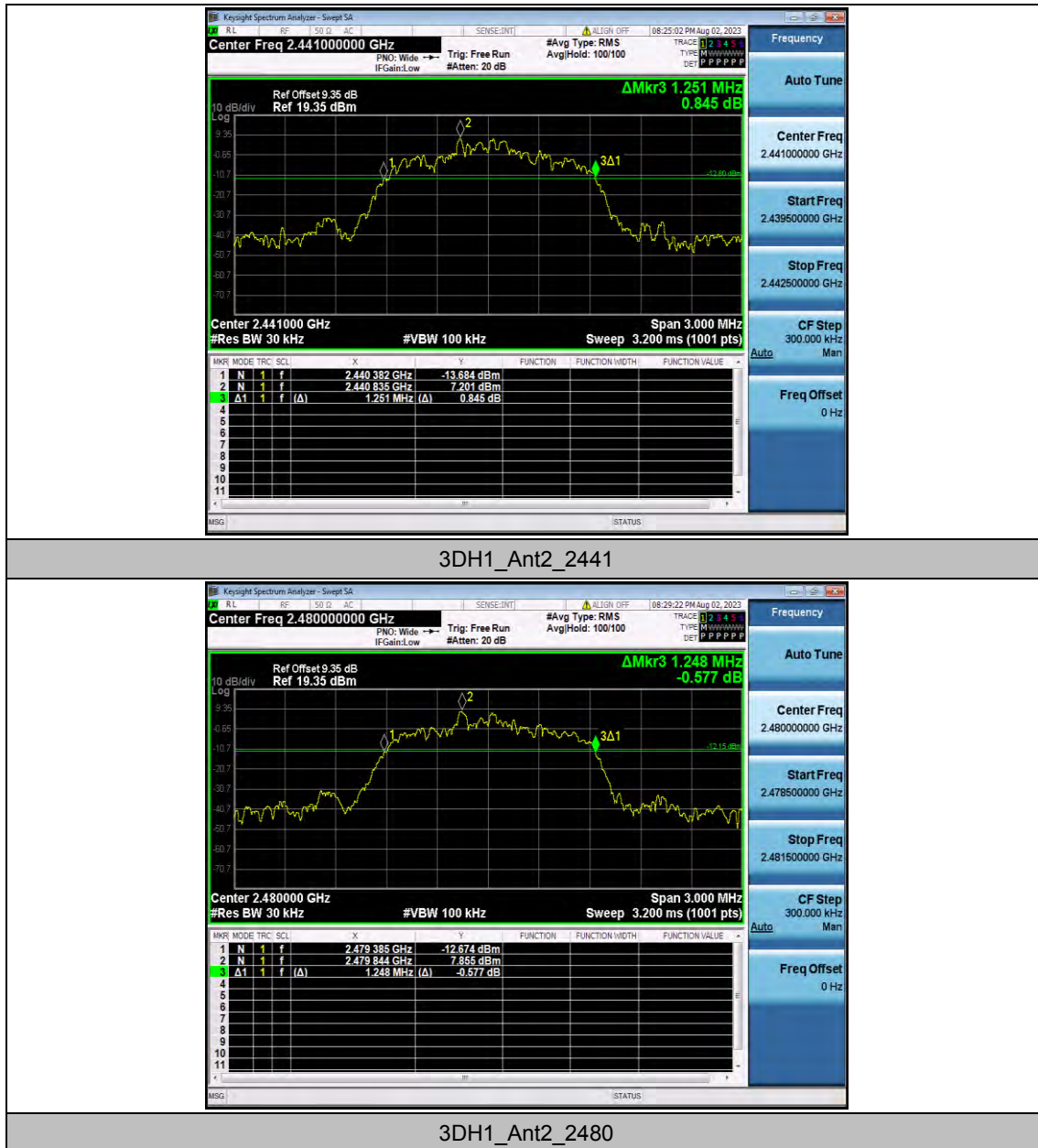
2DH1_Ant2_2441



2DH1_Ant2_2480



3DH1_Ant2_2402

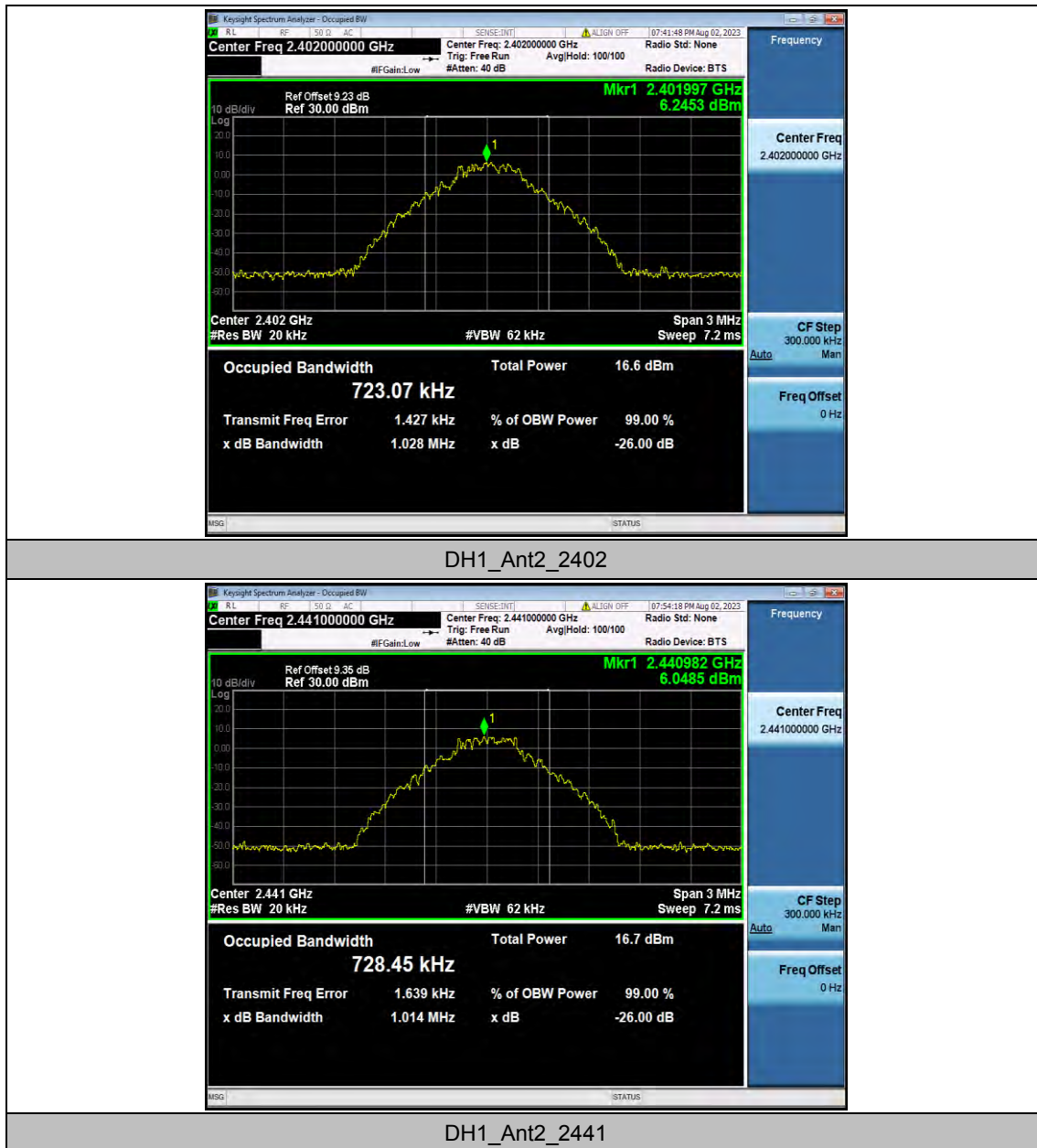


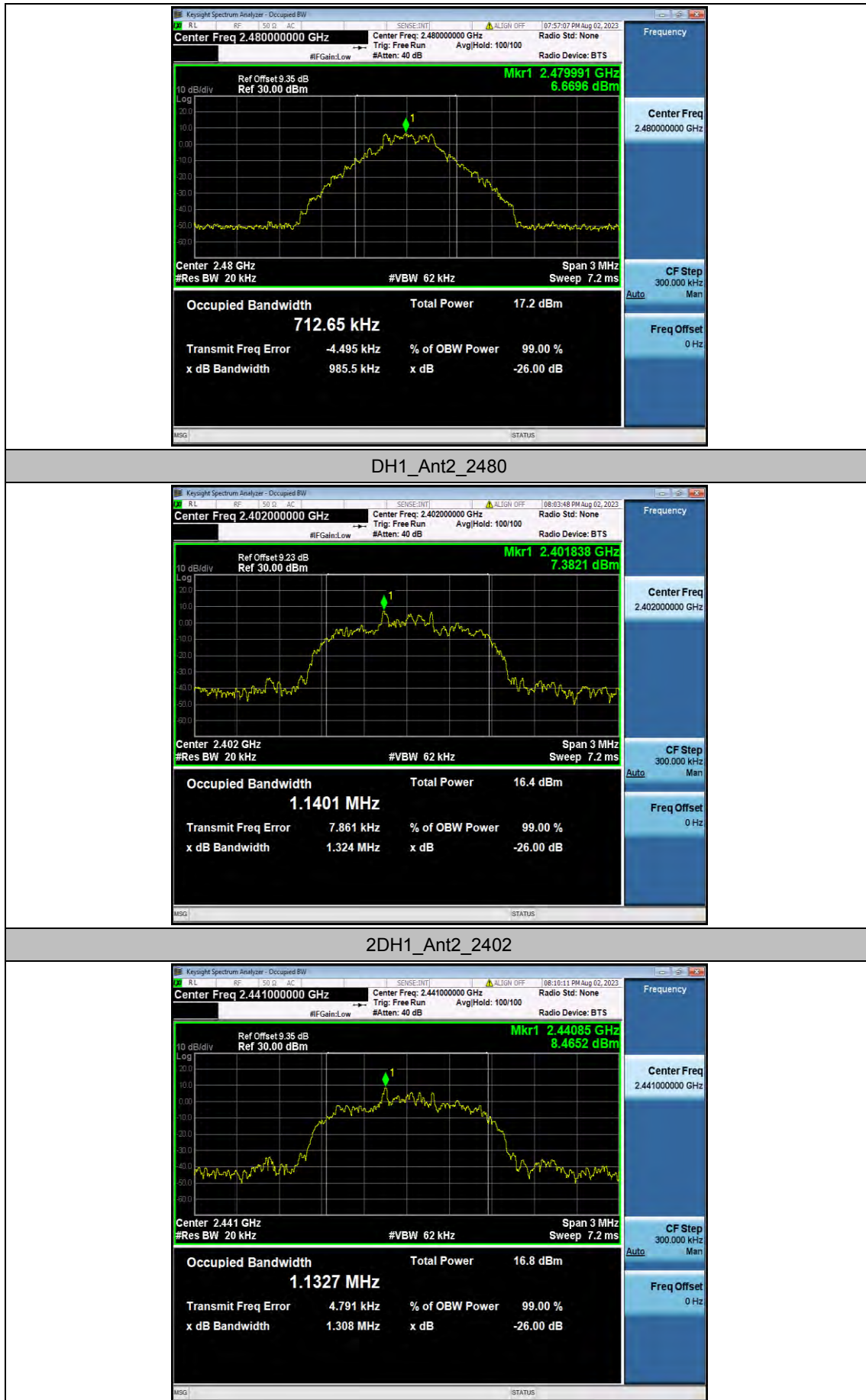
Appendix A.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant2	2402	0.72307	2401.640	2402.363	---	---
		2441	0.72845	2440.637	2441.366	---	---
		2480	0.71265	2479.639	2480.352	---	---
2DH1	Ant2	2402	1.1401	2401.438	2402.578	---	---
		2441	1.1327	2440.438	2441.571	---	---
		2480	1.1383	2479.435	2480.573	---	---
3DH1	Ant2	2402	1.1412	2401.447	2402.588	---	---
		2441	1.1358	2440.445	2441.581	---	---
		2480	1.1295	2479.449	2480.578	---	---

Test Graphs

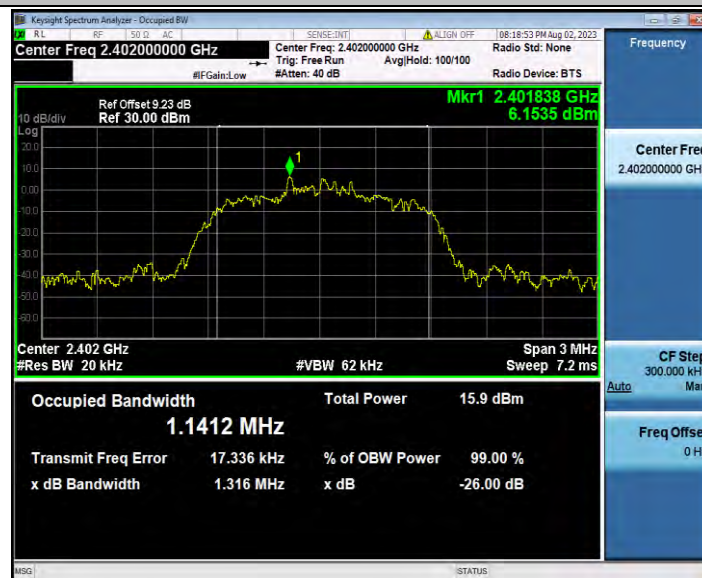




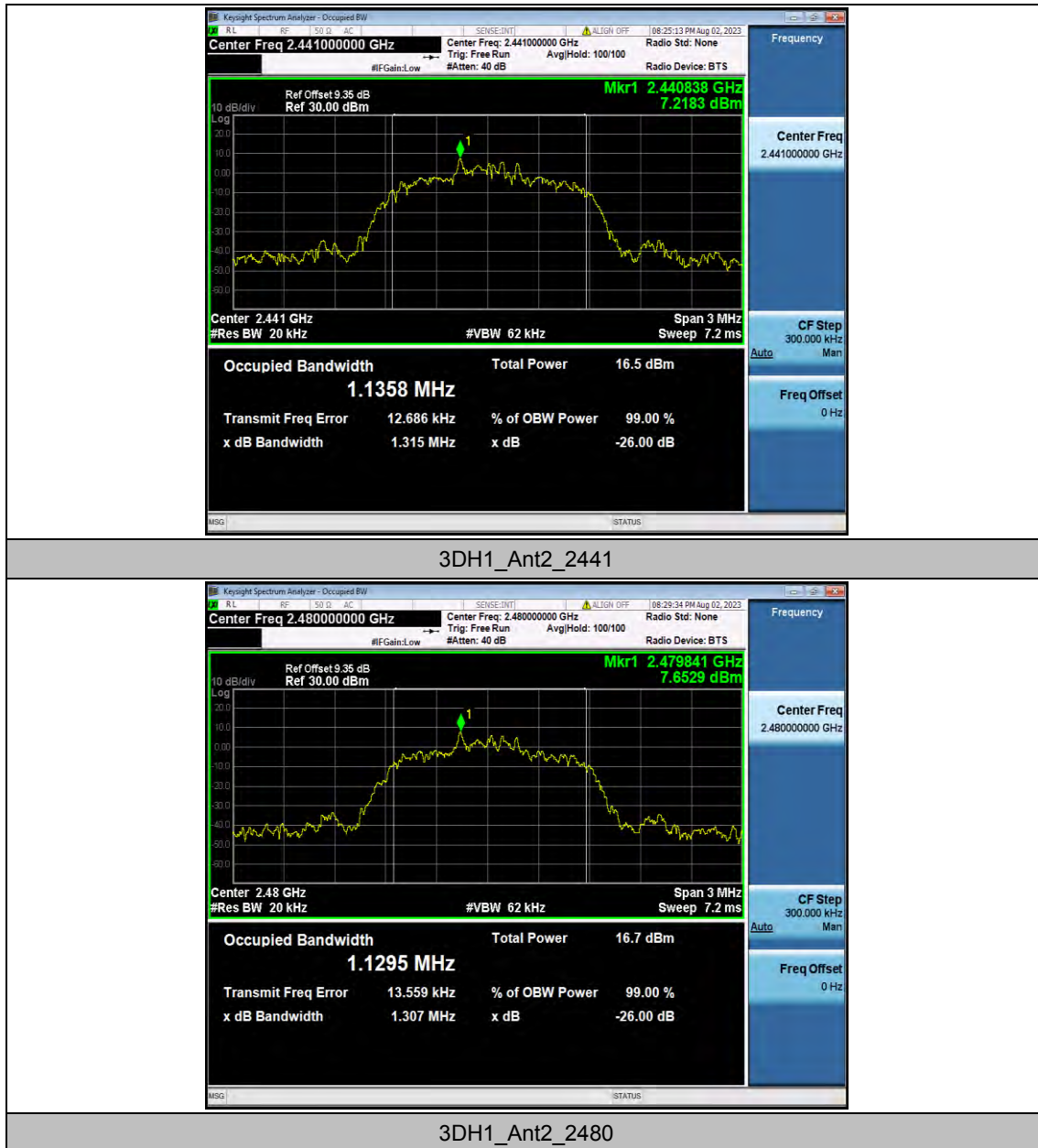
2DH1_Ant2_2441



2DH1_Ant2_2480



3DH1_Ant2_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	Ant2	2402	11.34	≤30	PASS
		2441	11.67	≤30	PASS
		2480	11.72	≤30	PASS
2DH1	Ant2	2402	11.12	≤20.97	PASS
		2441	11.81	≤20.97	PASS
		2480	11.68	≤20.97	PASS
3DH1	Ant2	2402	11.25	≤20.97	PASS
		2441	11.93	≤20.97	PASS
		2480	11.79	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant2	Hop_2402	1.002	≥ 0.825	PASS
		Hop_2441	1.004	≥ 0.825	PASS
		Hop_2480	1.166	≥ 0.825	PASS
2DH1	Ant2	Hop_2402	1.014	≥ 0.846	PASS
		Hop_2441	0.994	≥ 0.846	PASS
		Hop_2480	1	≥ 0.846	PASS
3DH1	Ant2	Hop_2402	0.998	≥ 0.834	PASS
		Hop_2441	1.004	≥ 0.834	PASS
		Hop_2480	1.006	≥ 0.834	PASS

Test Graphs





2DH1_Ant2_Hop_2441



2DH1_Ant2_Hop_2480



3DH1_Ant2_Hop_2402

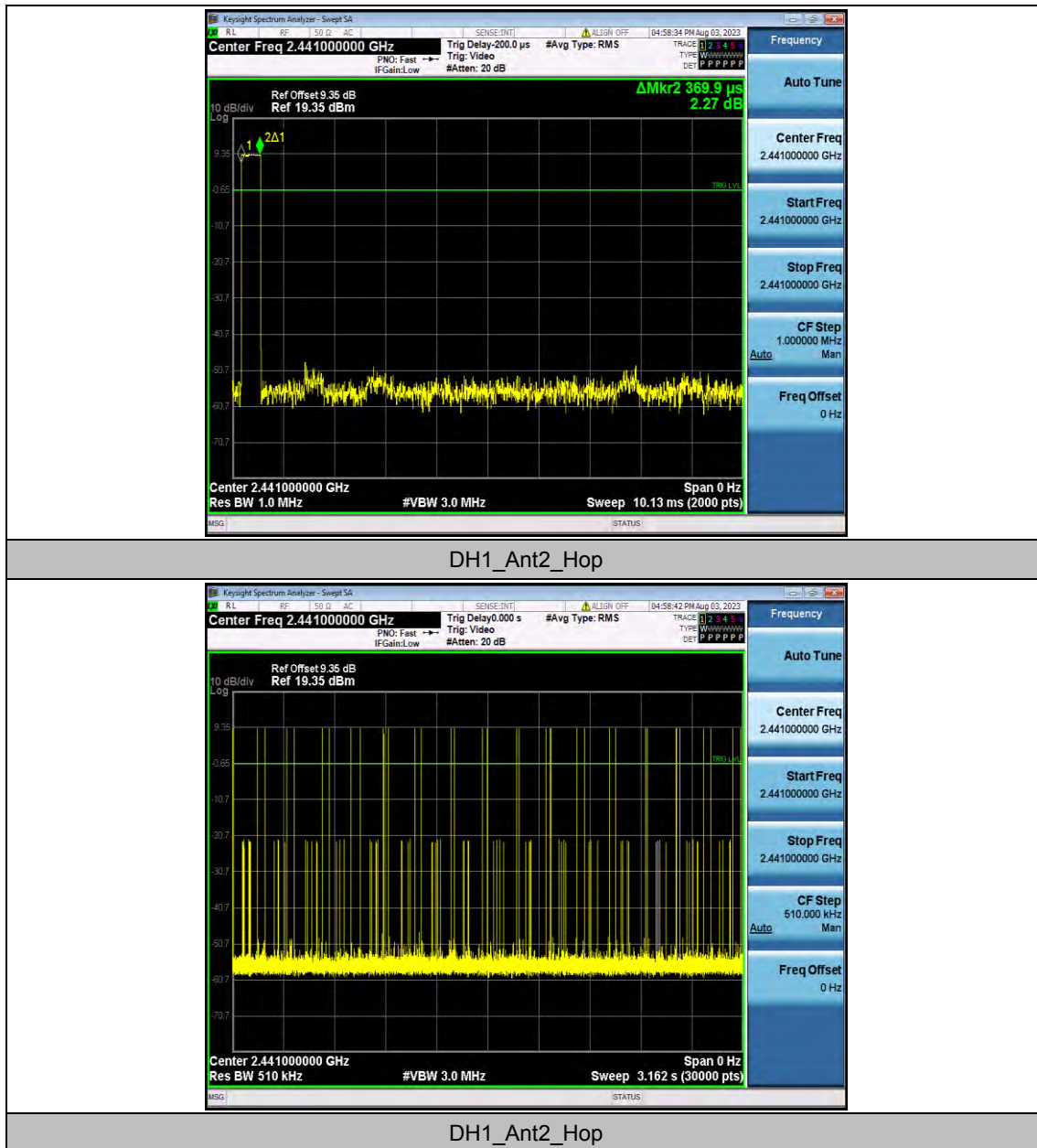


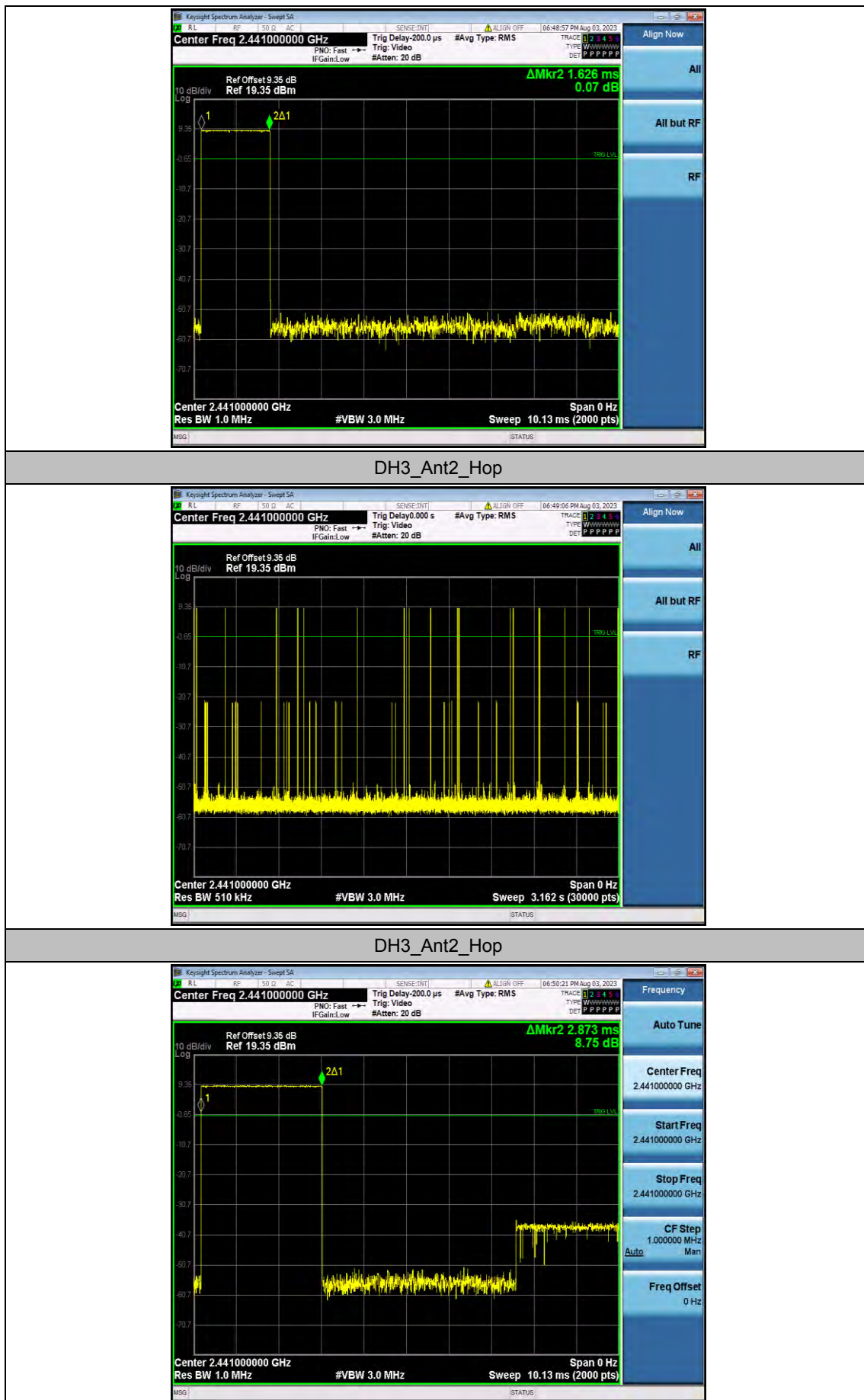
Appendix A.5: Time of occupancy

Test Result

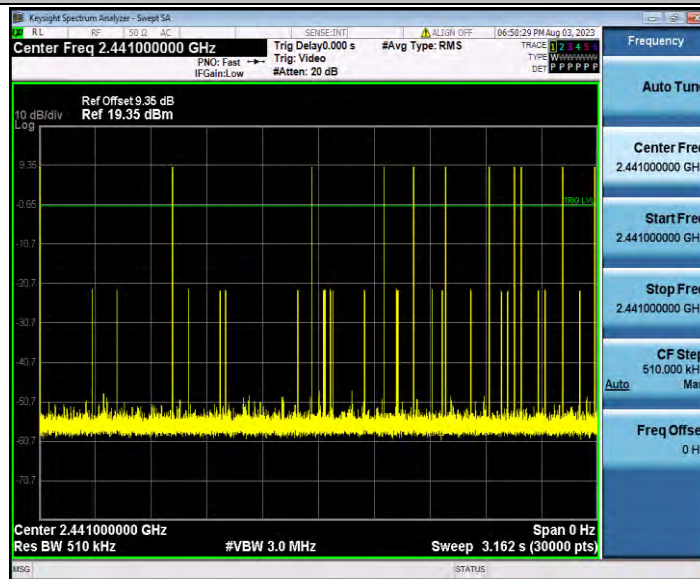
Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant2	Hop	0.37	330	0.122	≤0.4	PASS
DH3	Ant2	Hop	1.63	190	0.309	≤0.4	PASS
DH5	Ant2	Hop	2.87	110	0.316	≤0.4	PASS
2DH1	Ant2	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant2	Hop	1.13	150	0.17	≤0.4	PASS
2DH5	Ant2	Hop	2.88	120	0.345	≤0.4	PASS
3DH1	Ant2	Hop	0.38	320	0.122	≤0.4	PASS
3DH3	Ant2	Hop	1.63	160	0.26	≤0.4	PASS
3DH5	Ant2	Hop	2.88	120	0.345	≤0.4	PASS

Test Graphs

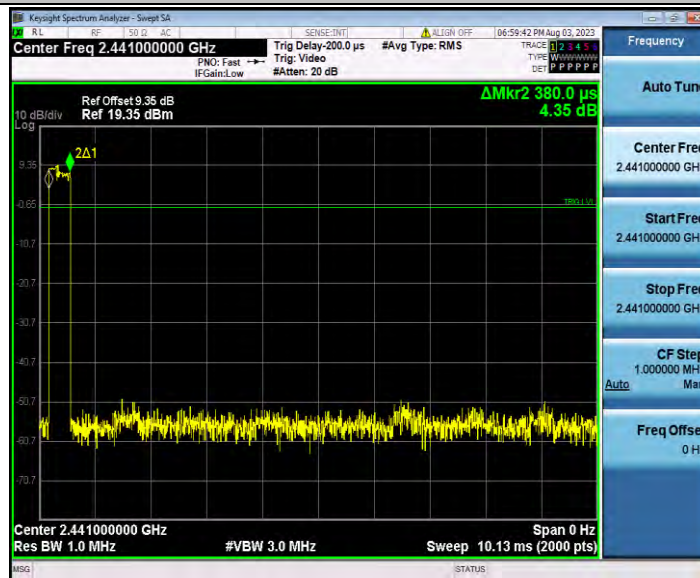




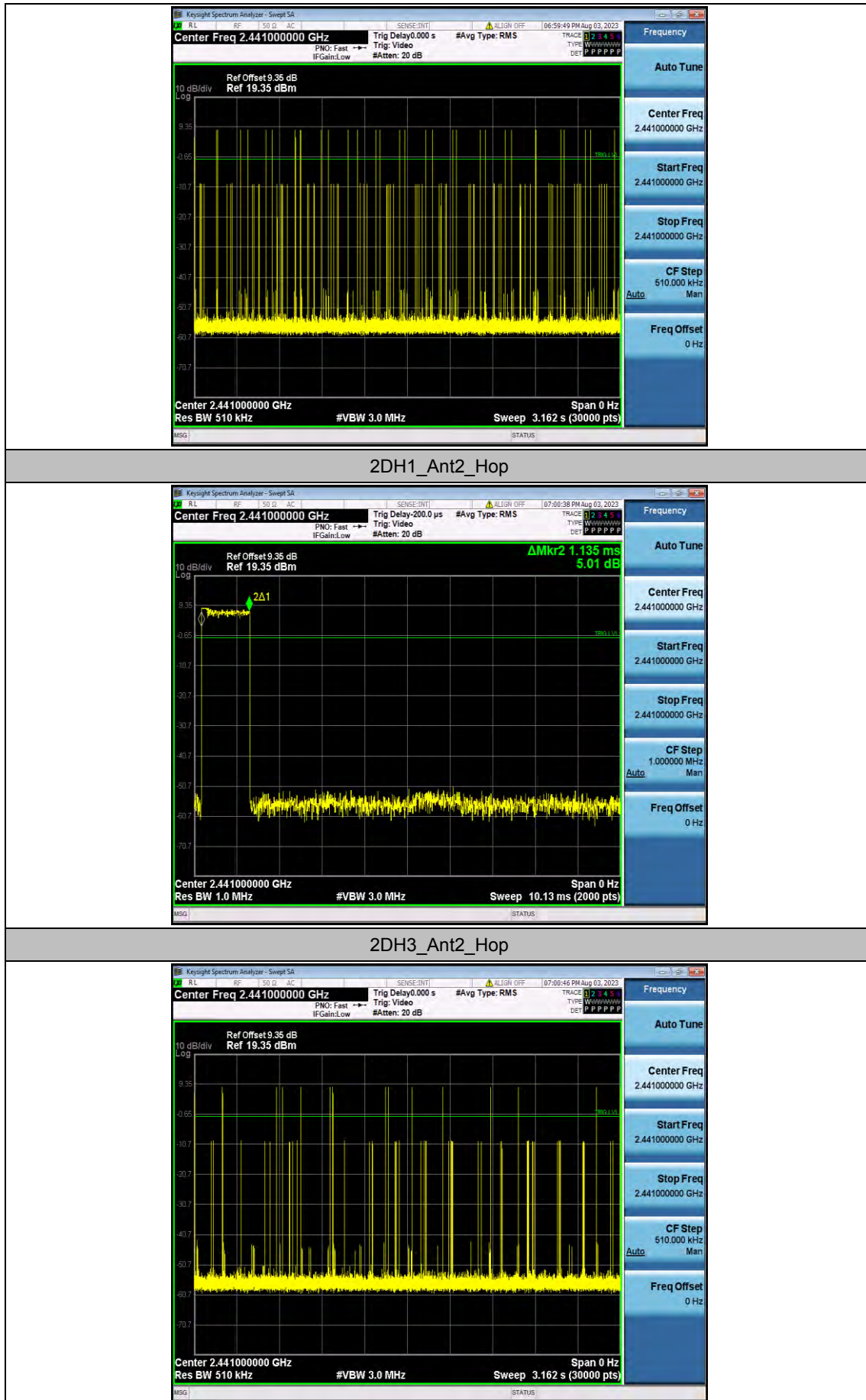
DH5_Ant2_Hop



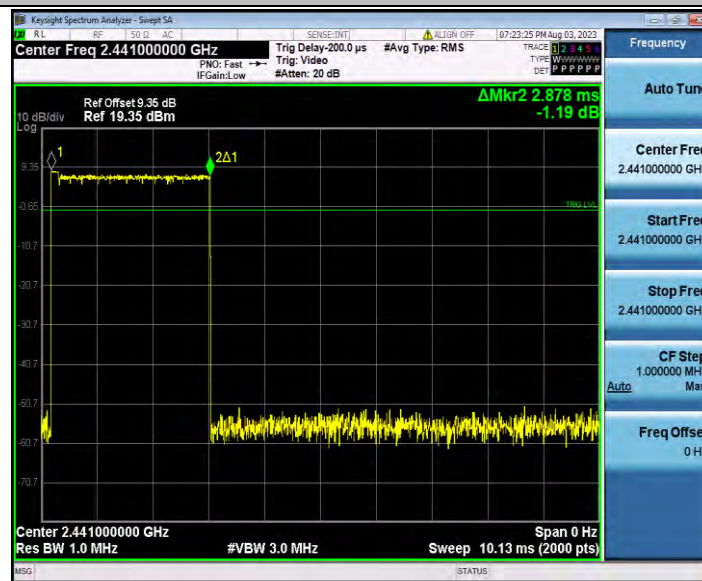
DH5_Ant2_Hop



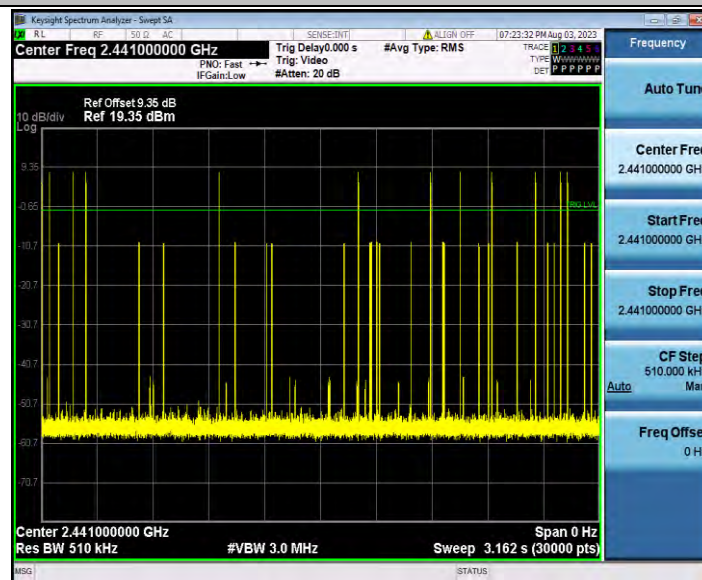
2DH1_Ant2_Hop



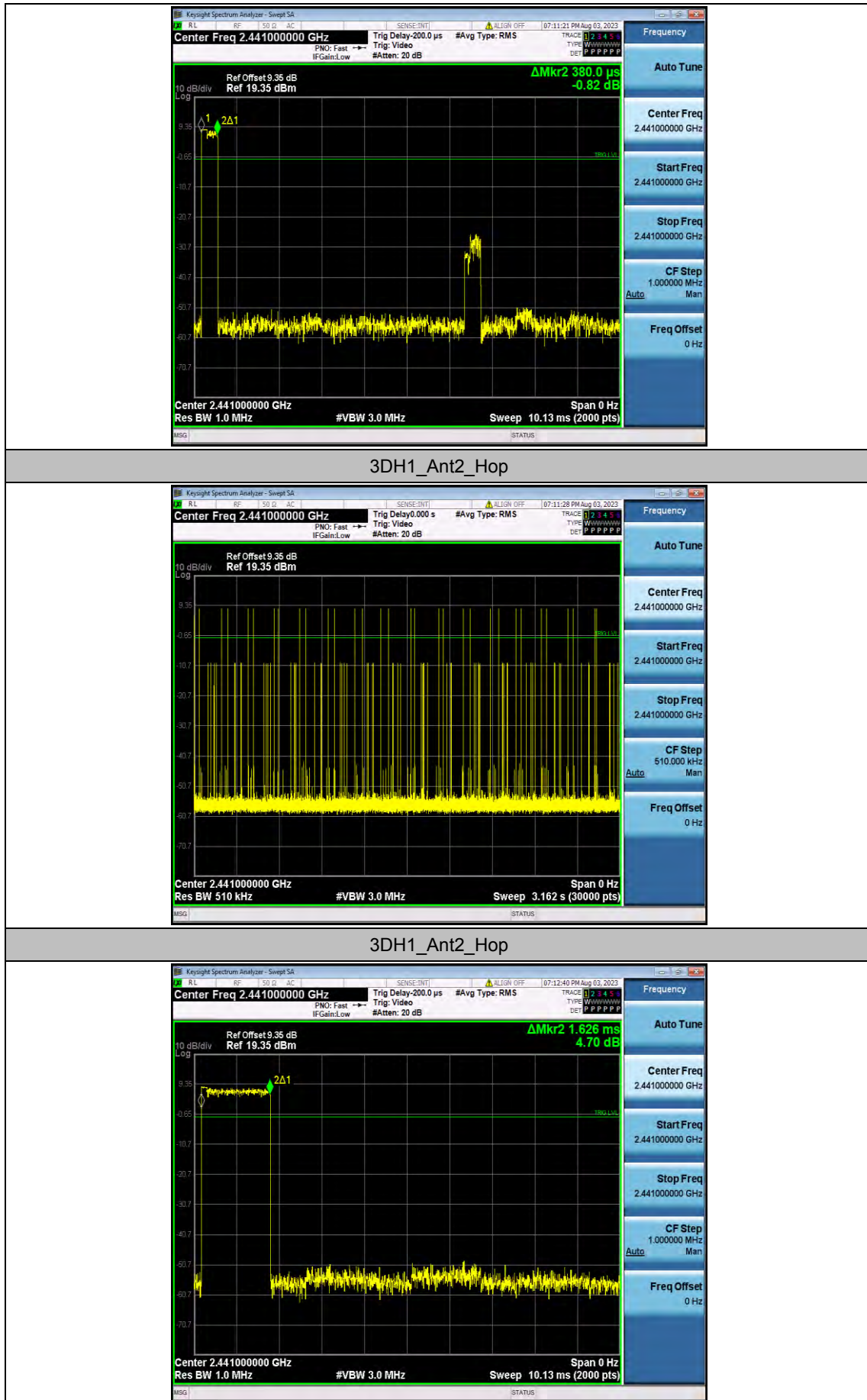
2DH3_Ant2_Hop



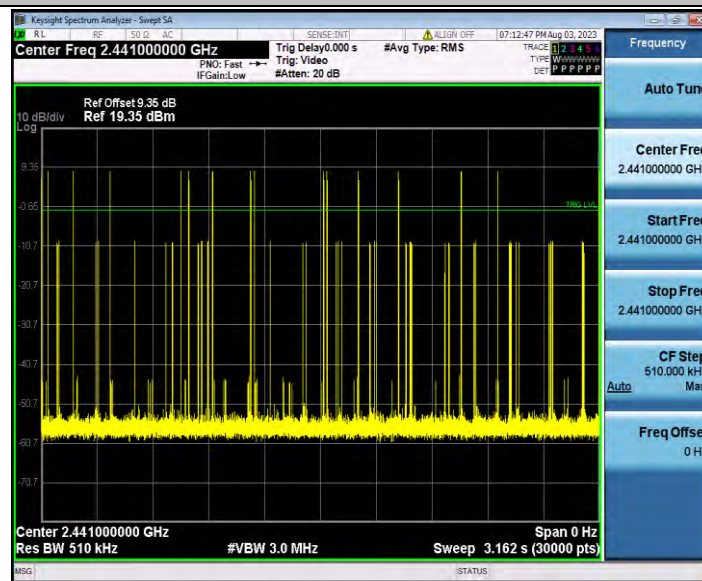
2DH5_Ant2_Hop



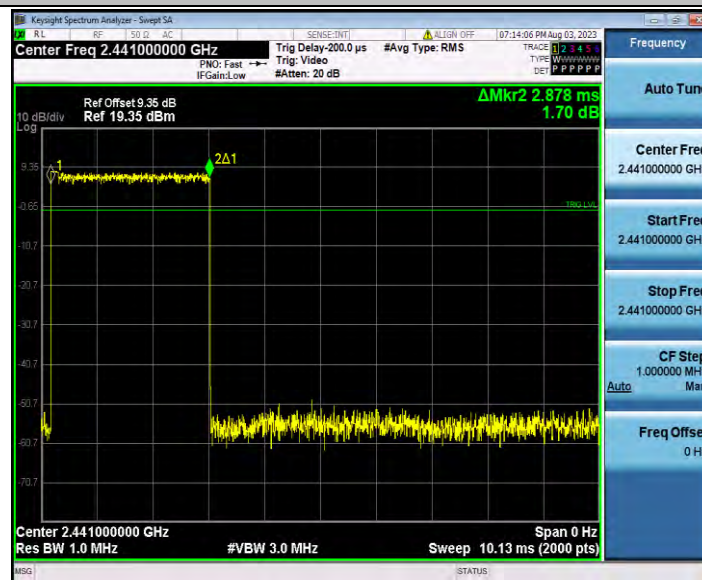
2DH5_Ant2_Hop



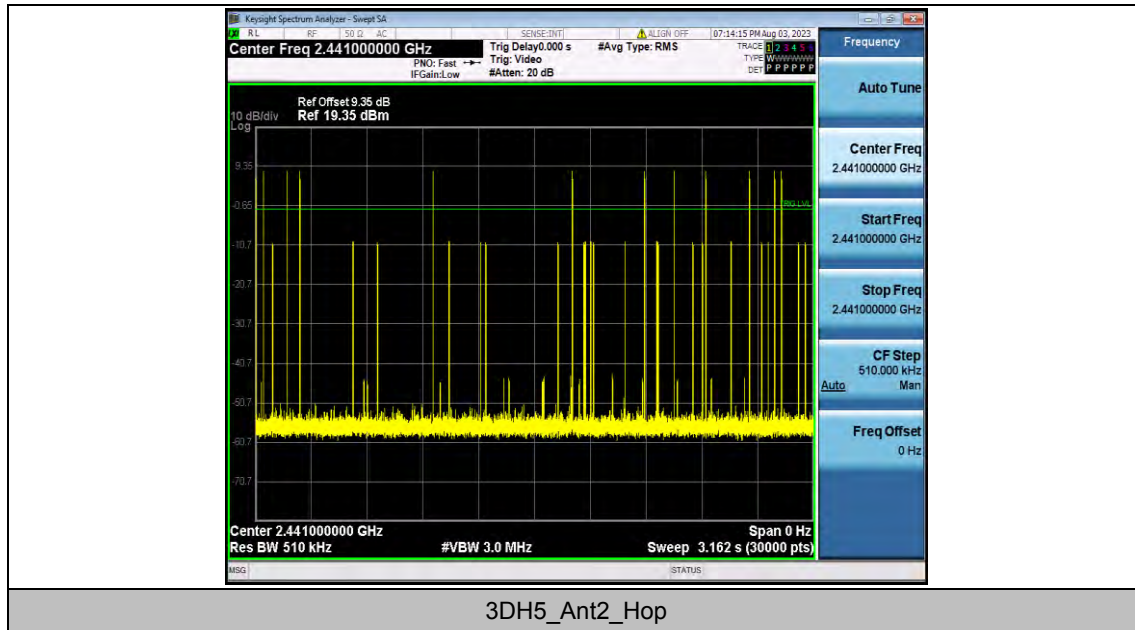
3DH3_Ant2_Hop



3DH3_Ant2_Hop



3DH5_Ant2_Hop

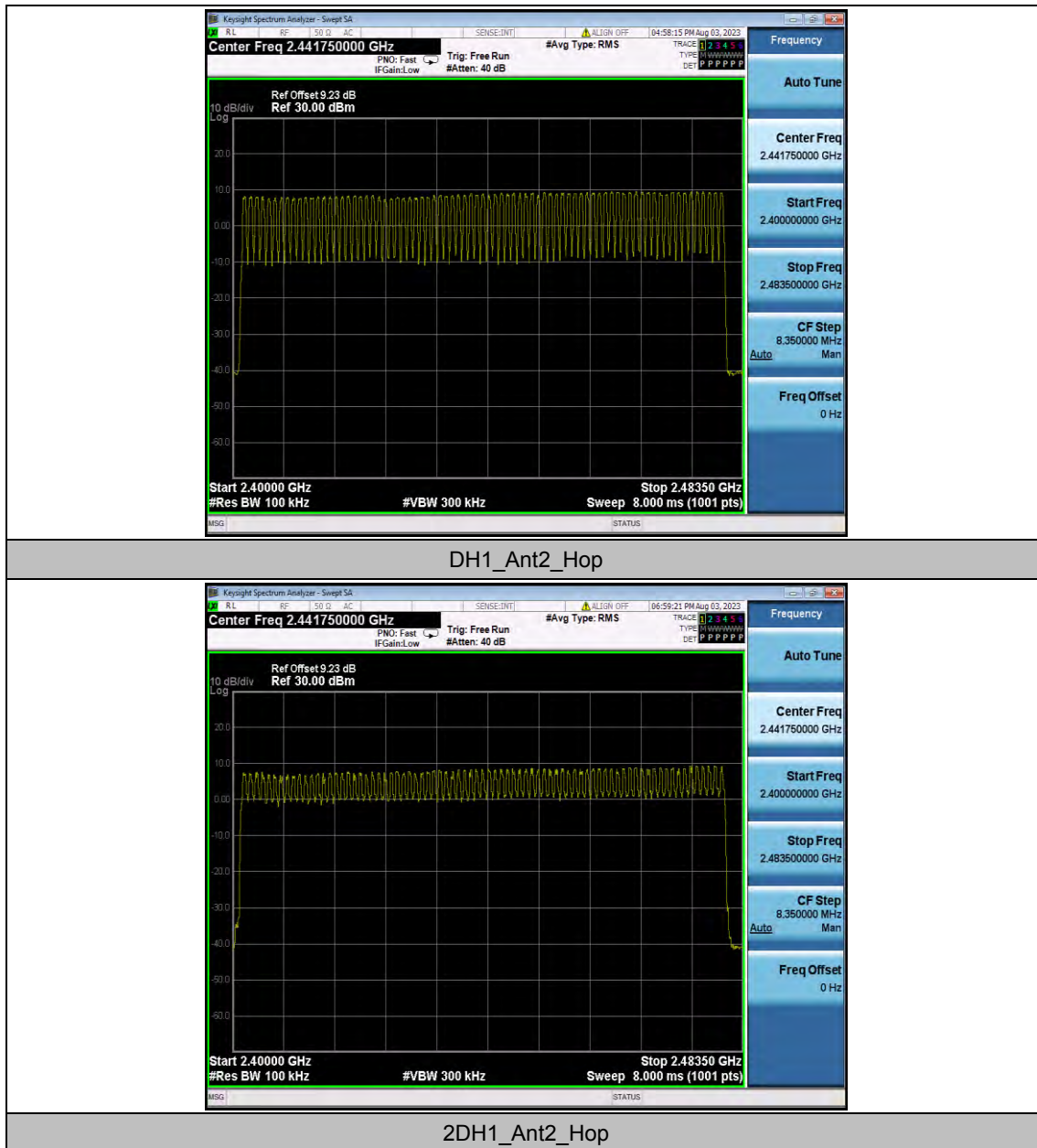


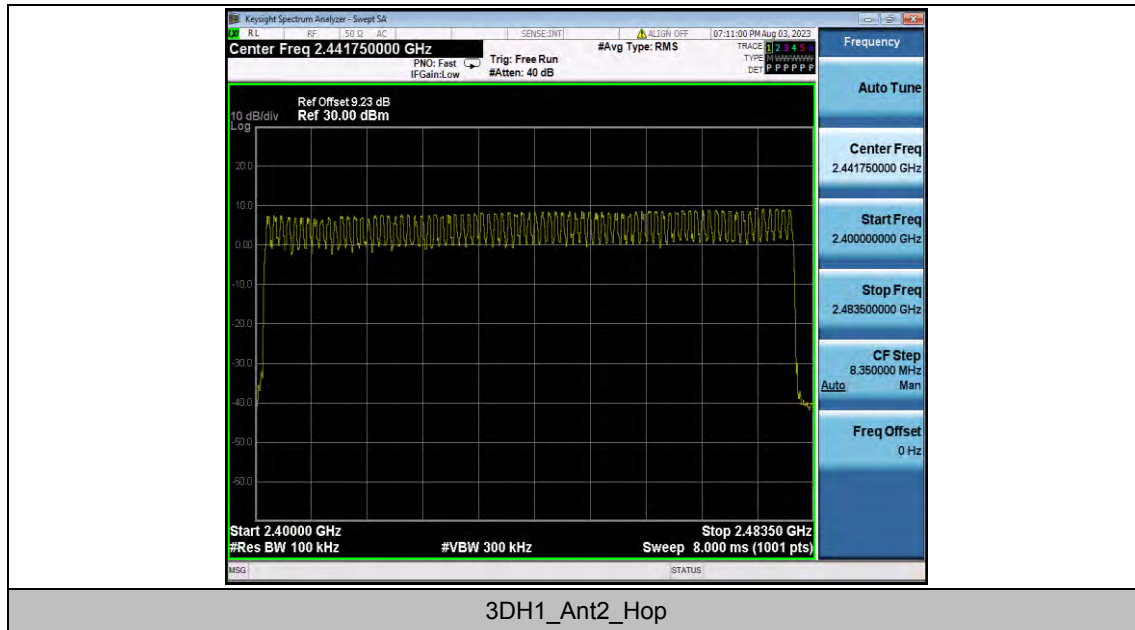
Appendix A.6: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant2	Hop	79	≥15	PASS
2DH1	Ant2	Hop	79	≥15	PASS
3DH1	Ant2	Hop	79	≥15	PASS

Test Graphs



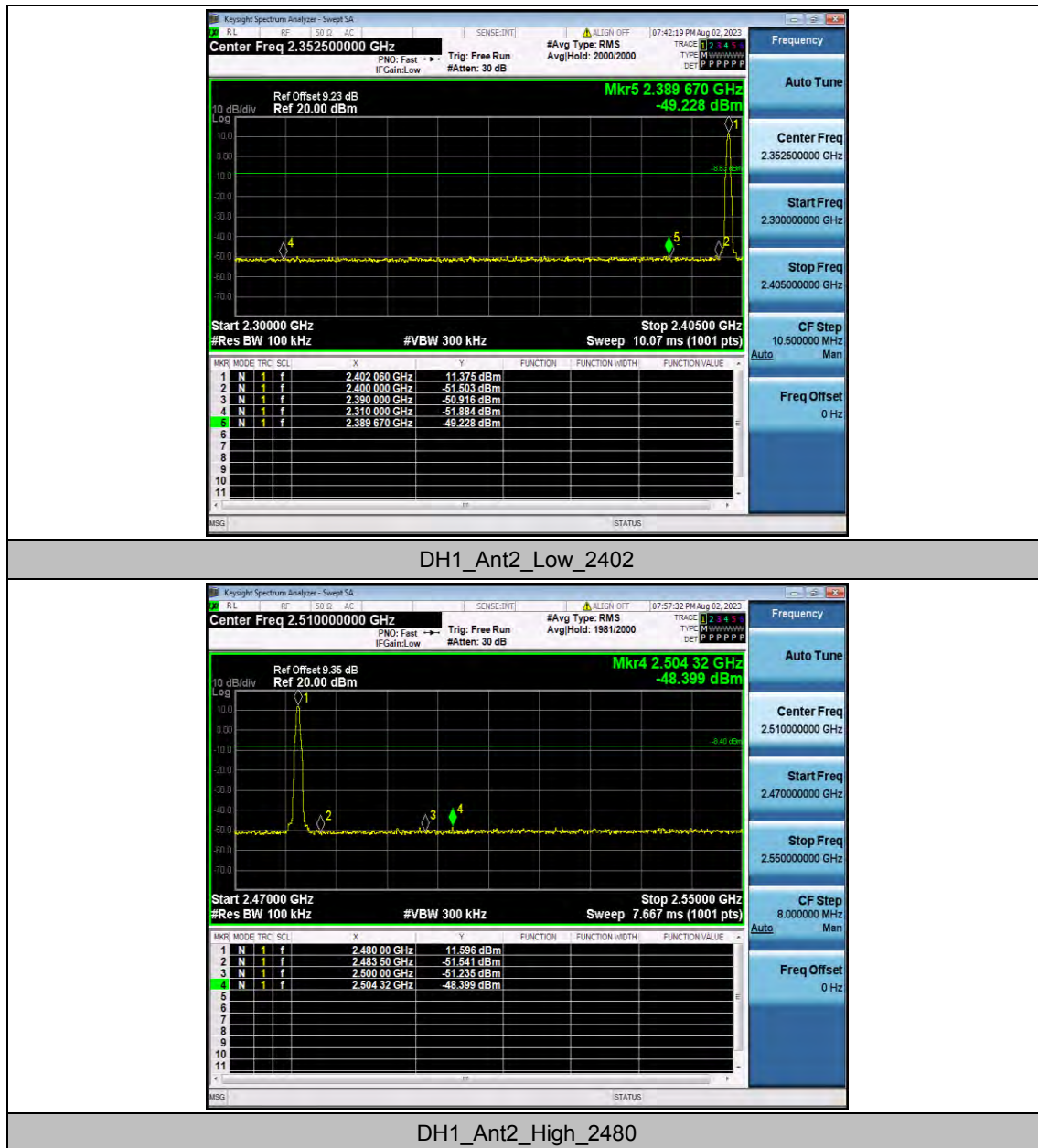


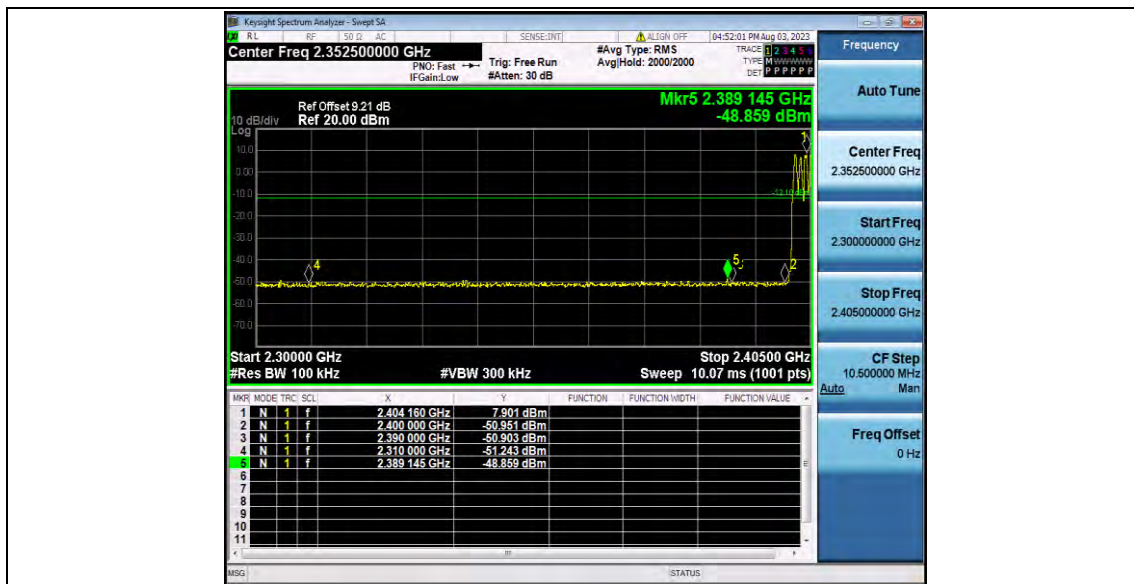
Appendix A.7: Band edge measurements

Test Result

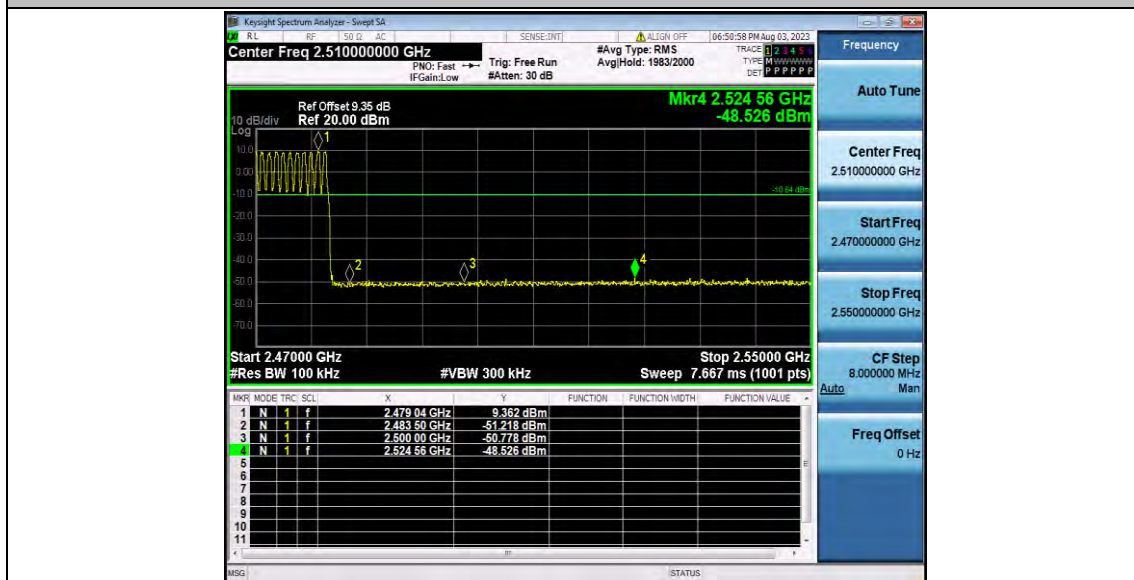
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant2	Low	2402	11.38	-49.23	≤ -8.63	PASS
		High	2480	11.60	-48.4	≤ -8.4	PASS
		Low	Hop_2402	7.90	-48.86	≤ -12.1	PASS
		High	Hop_2480	9.36	-48.53	≤ -10.64	PASS
2DH1	Ant2	Low	2402	11.04	-47.32	≤ -8.97	PASS
		High	2480	11.70	-48.82	≤ -8.3	PASS
		Low	Hop_2402	7.40	-49.56	≤ -12.6	PASS
		High	Hop_2480	9.17	-49.16	≤ -10.83	PASS
3DH1	Ant2	Low	2402	11.15	-49.03	≤ -8.85	PASS
		High	2480	11.81	-48.71	≤ -8.19	PASS
		Low	Hop_2402	7.23	-48.56	≤ -12.77	PASS
		High	Hop_2480	8.78	-47.55	≤ -11.22	PASS

Test Graphs

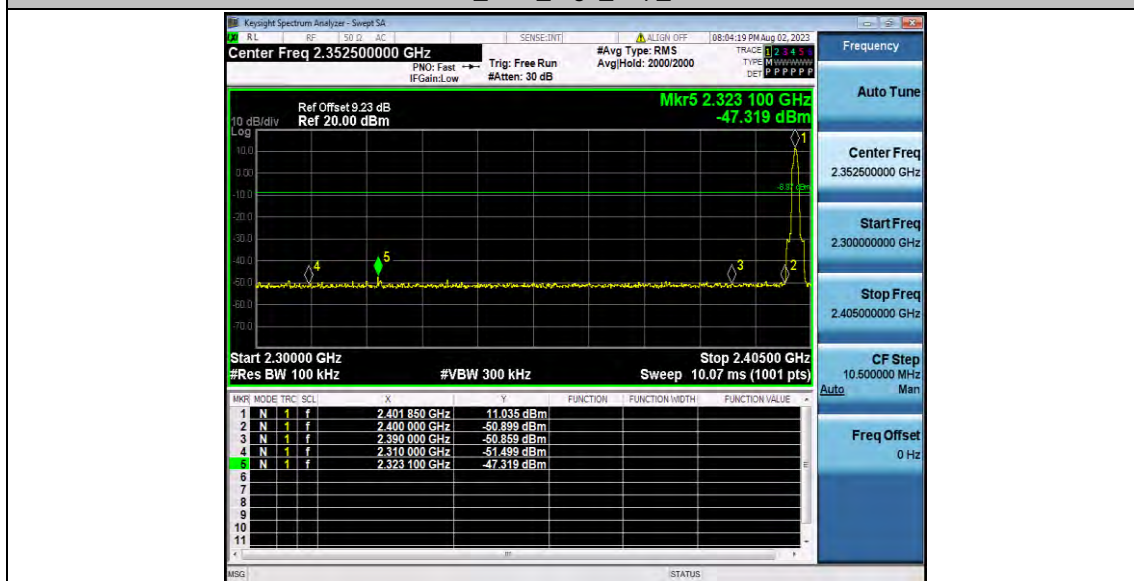




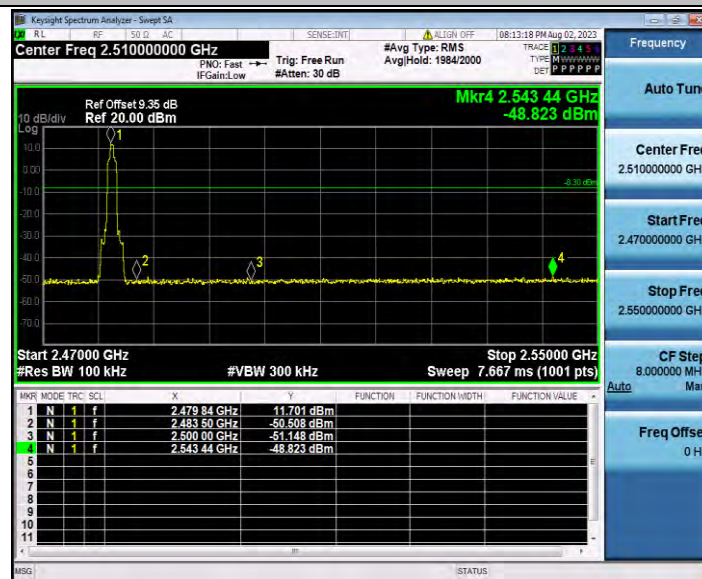
DH1_Ant2_Low_Hop_2402



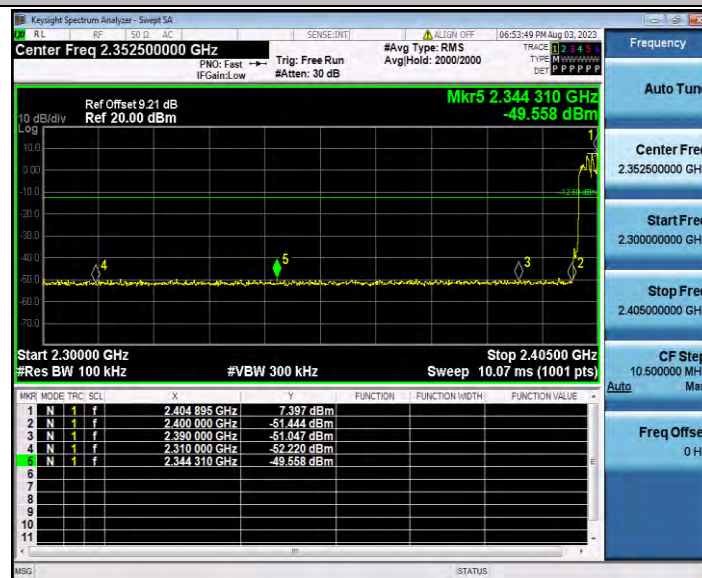
DH1_Ant2_High_Hop_2480



2DH1_Ant2_Low_2402

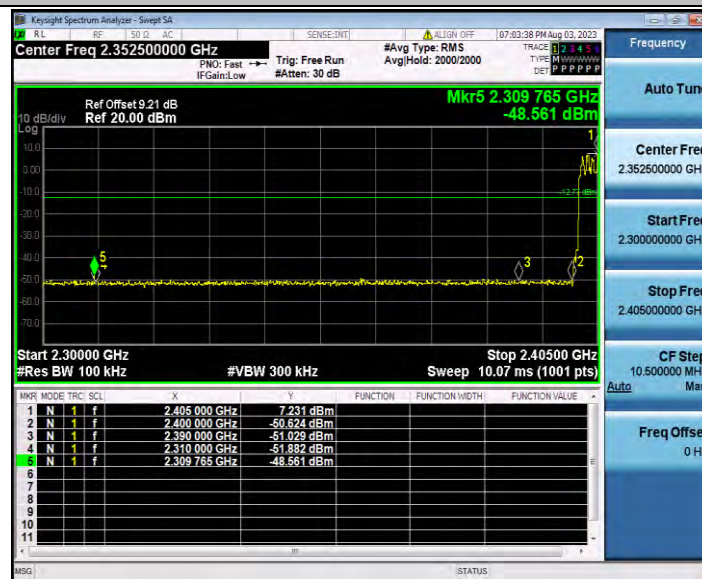


2DH1_Ant2_High_2480

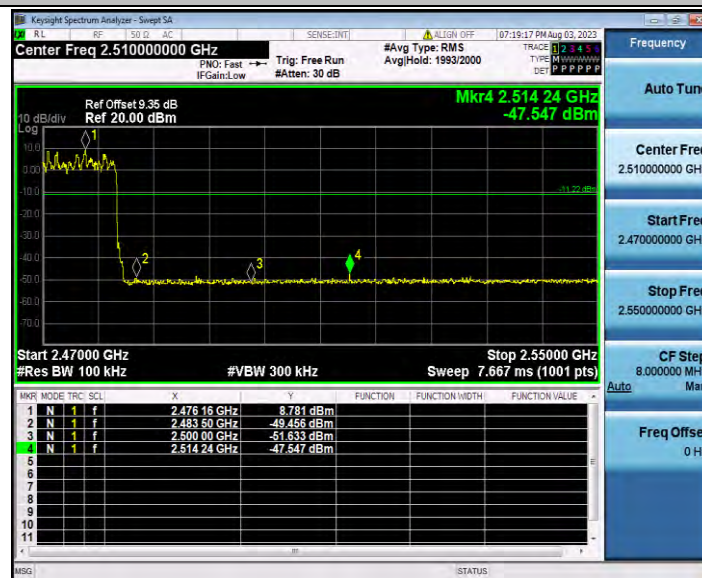


2DH1_Ant2_Low_Hop_2402

3DH1_Ant2_High_2480



3DH1_Ant2_Low_Hop_2402



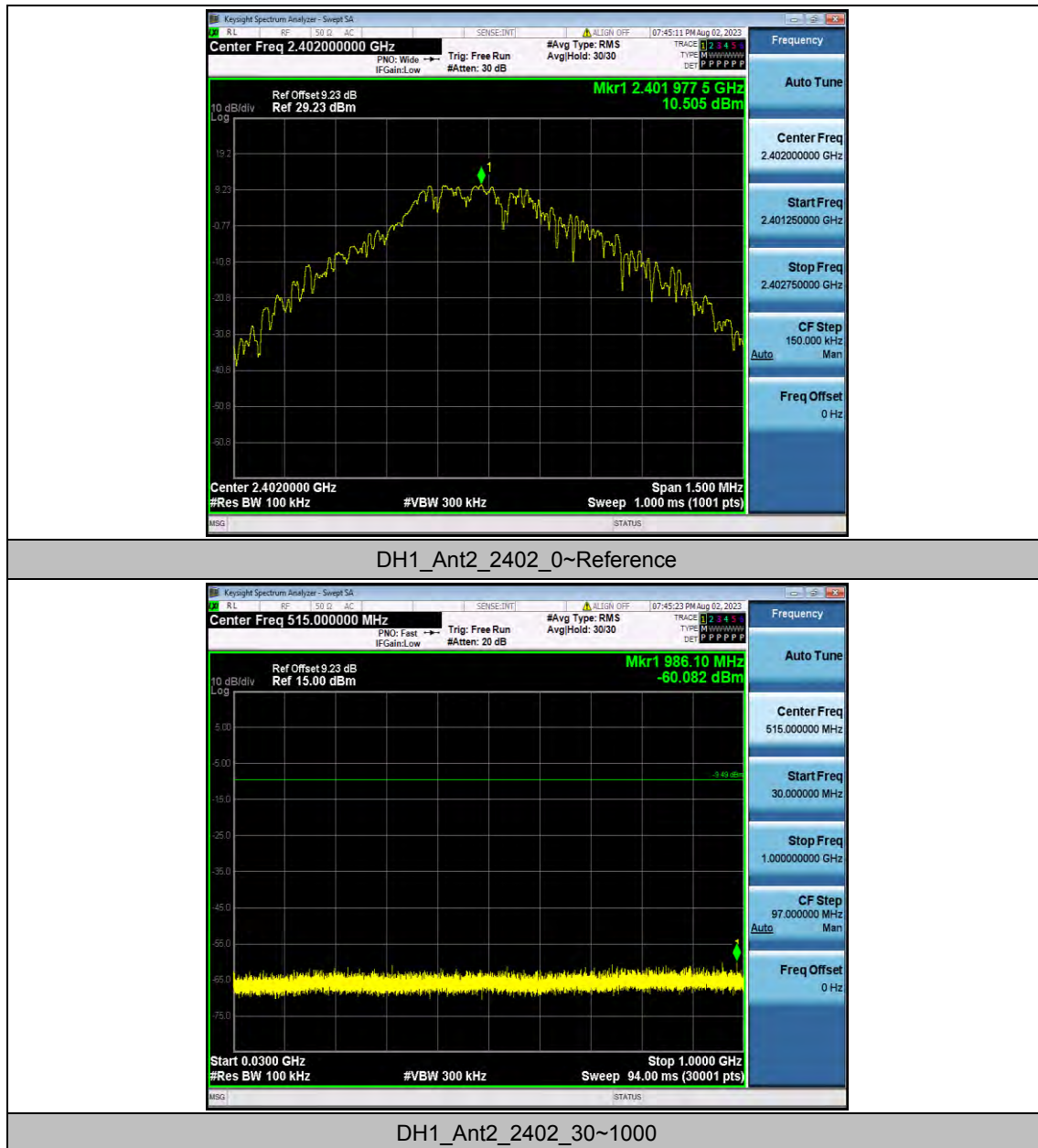
3DH1_Ant2_High_Hop_2480

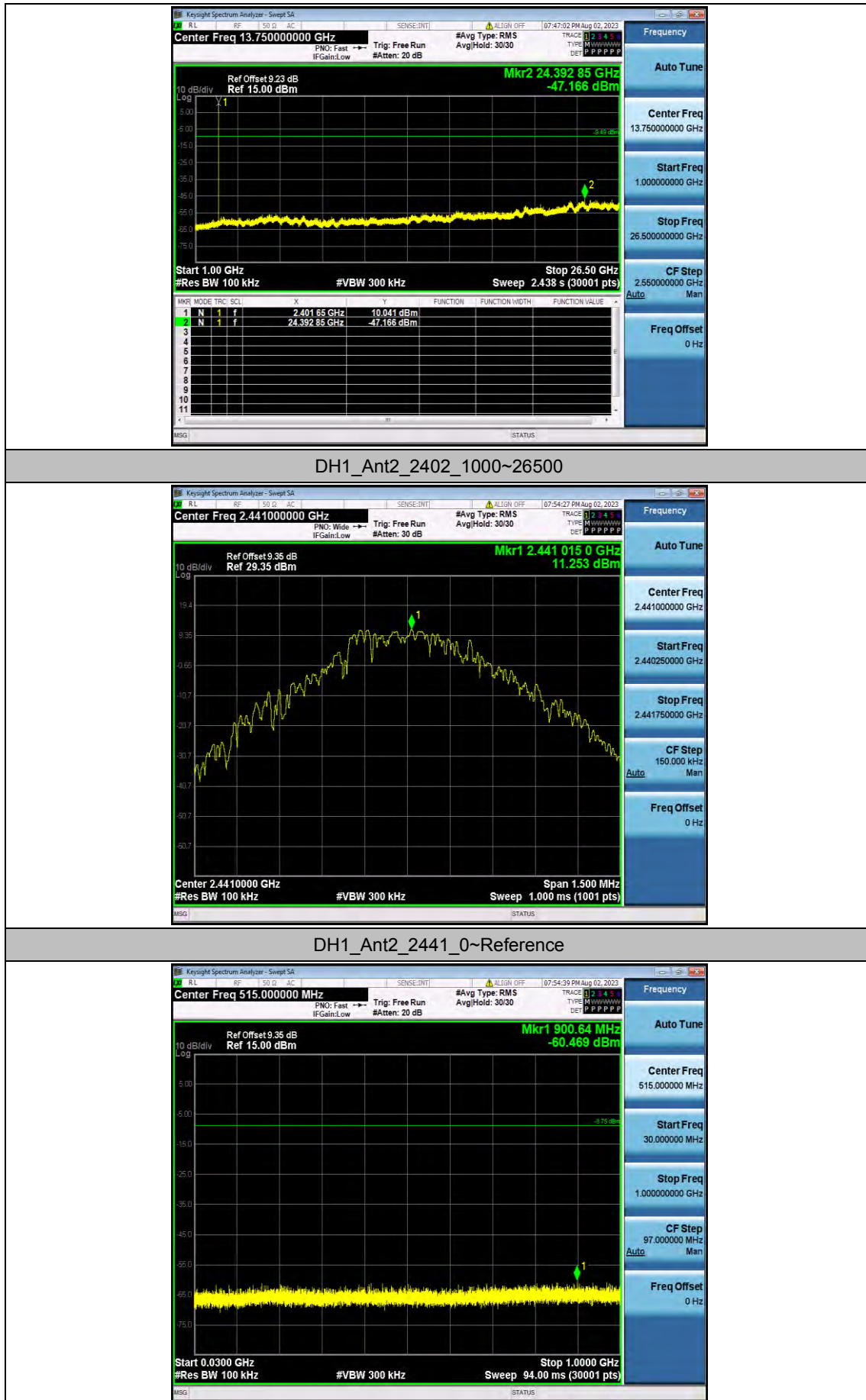
Appendix A.8: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant2	2402	Reference	10.51	10.51	---	PASS
			30~1000	10.51	-60.08	≤ -9.49	PASS
			1000~26500	10.51	-47.17	≤ -9.49	PASS
		2441	Reference	11.25	11.25	---	PASS
			30~1000	11.25	-60.47	≤ -8.75	PASS
			1000~26500	11.25	-47.14	≤ -8.75	PASS
		2480	Reference	10.86	10.86	---	PASS
			30~1000	10.86	-59.85	≤ -9.14	PASS
			1000~26500	10.86	-47.35	≤ -9.14	PASS
2DH1	Ant2	2402	Reference	10.26	10.26	---	PASS
			30~1000	10.26	-60.63	≤ -9.74	PASS
			1000~26500	10.26	-47.46	≤ -9.74	PASS
		2441	Reference	10.02	10.02	---	PASS
			30~1000	10.02	-60.17	≤ -9.98	PASS
			1000~26500	10.02	-47.47	≤ -9.98	PASS
		2480	Reference	10.98	10.98	---	PASS
			30~1000	10.98	-60.48	≤ -9.02	PASS
			1000~26500	10.98	-46.89	≤ -9.02	PASS
3DH1	Ant2	2402	Reference	10.17	10.17	---	PASS
			30~1000	10.17	-60.44	≤ -9.83	PASS
			1000~26500	10.17	-47.67	≤ -9.83	PASS
		2441	Reference	10.82	10.82	---	PASS
			30~1000	10.82	-60.19	≤ -9.18	PASS
			1000~26500	10.82	-47.04	≤ -9.18	PASS
		2480	Reference	10.59	10.59	---	PASS
			30~1000	10.59	-60.58	≤ -9.41	PASS
			1000~26500	10.59	-47.77	≤ -9.41	PASS

Test Graphs





DH1_Ant2_2441_30~1000



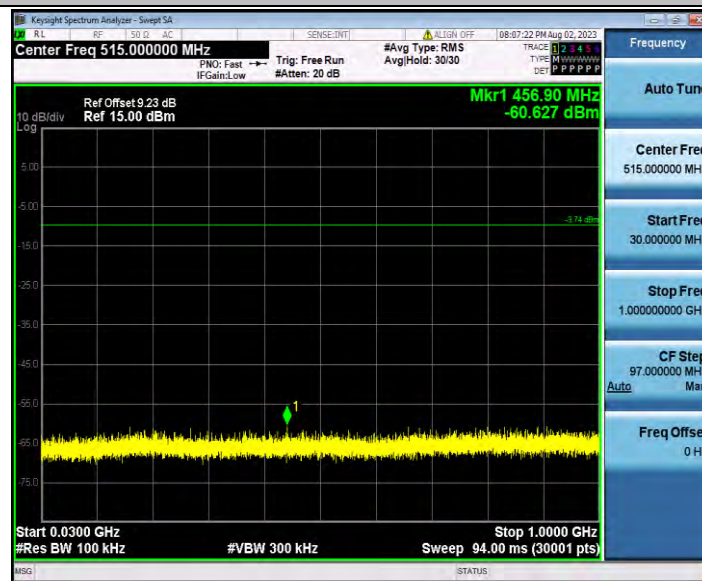
DH1_Ant2_2441_1000~26500



DH1_Ant2_2480_0~Reference



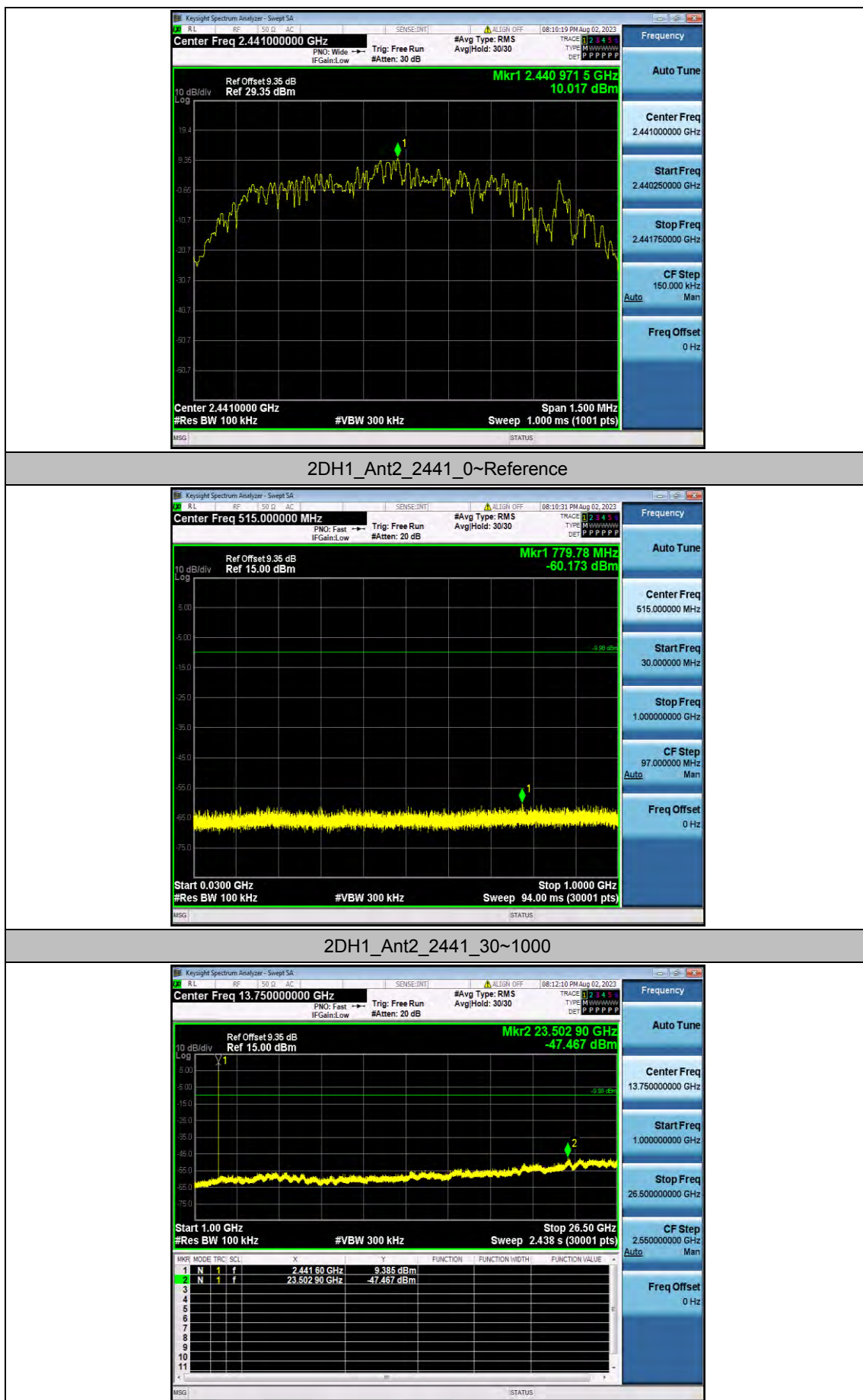
2DH1_Ant2_2402_0~Reference



2DH1_Ant2_2402_30~1000



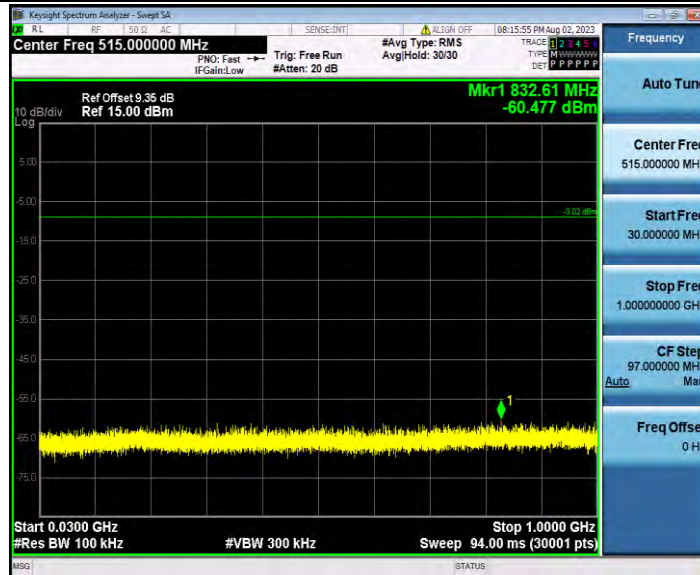
2DH1_Ant2_2402_1000~26500



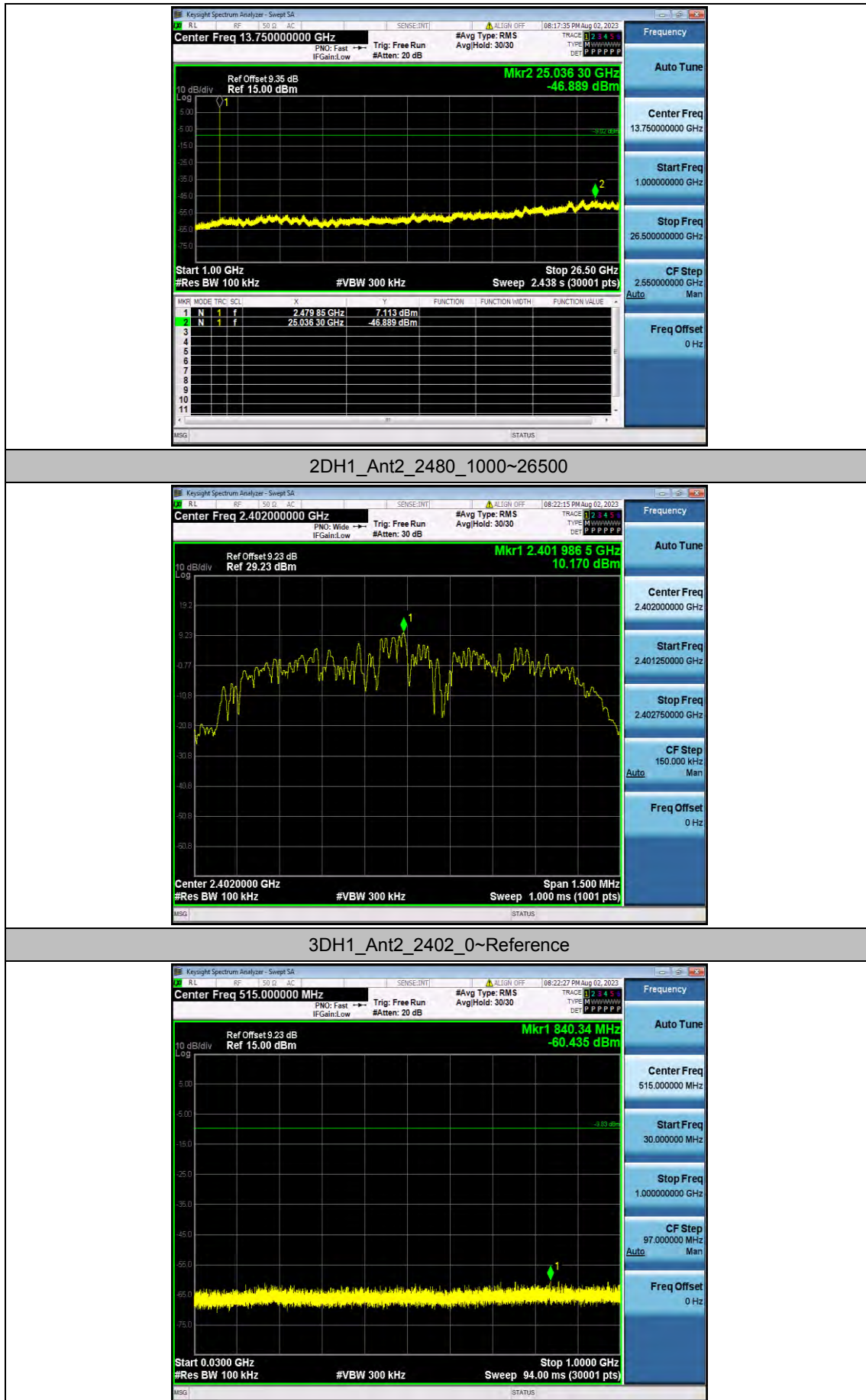
2DH1_Ant2_2441_1000~26500

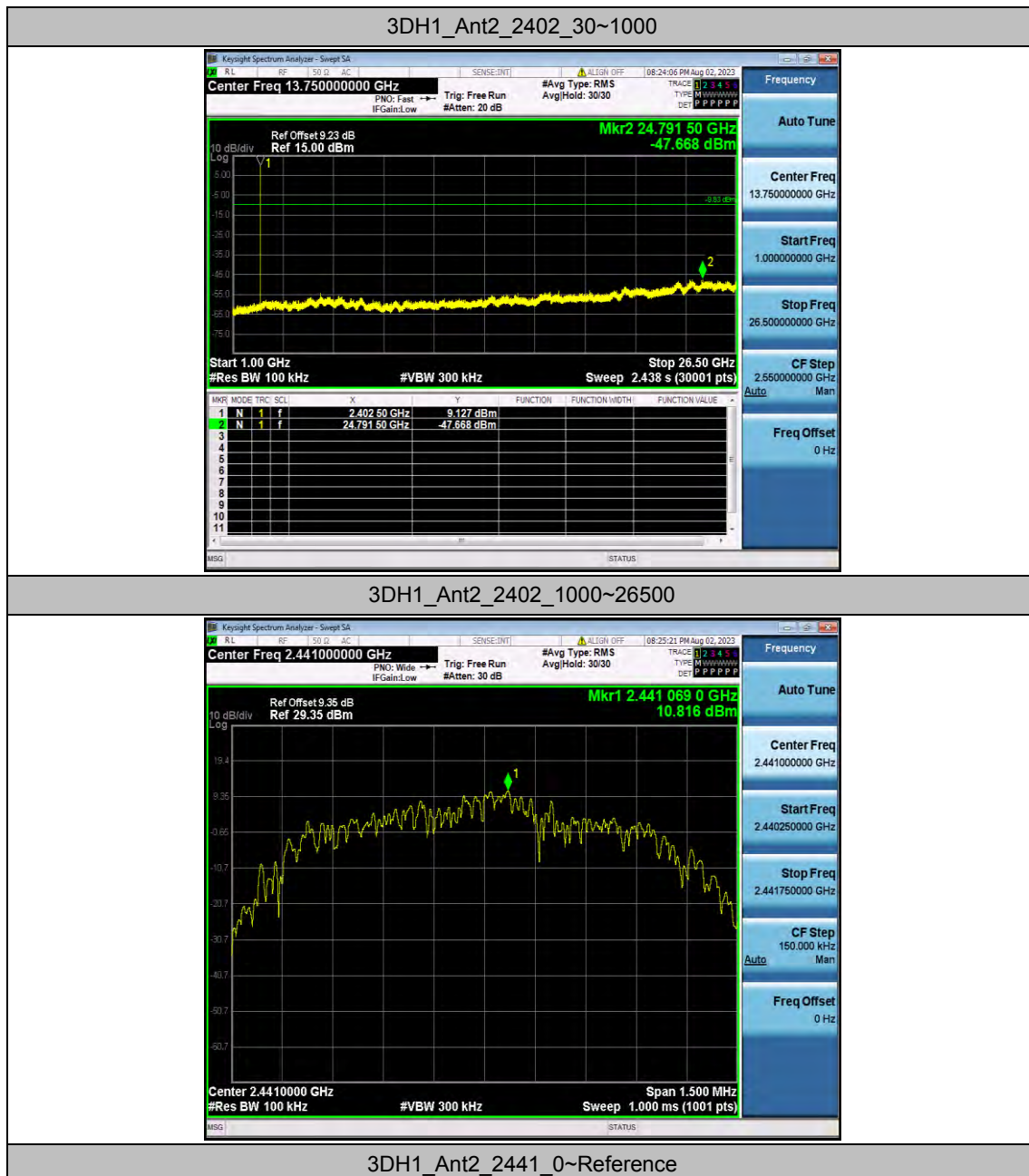


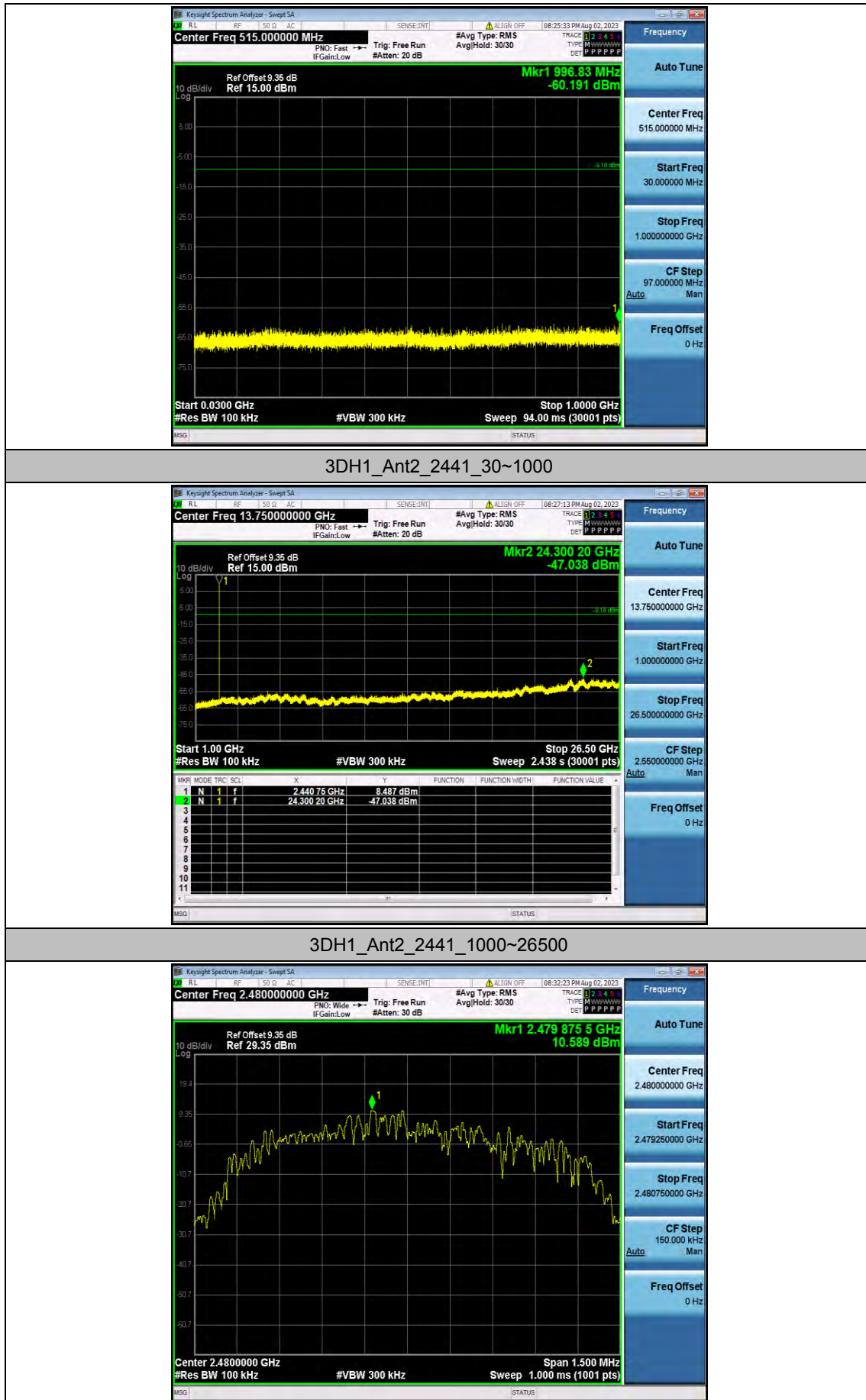
2DH1_Ant2_2480_0~Reference



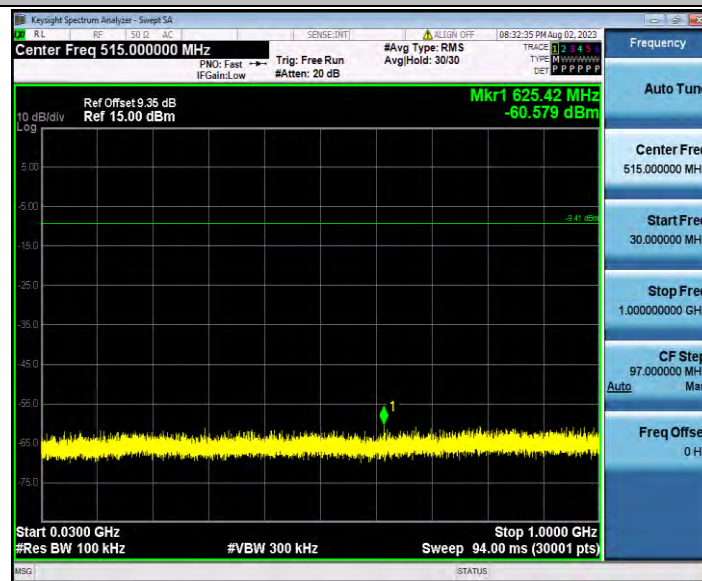
2DH1_Ant2_2480_30~1000



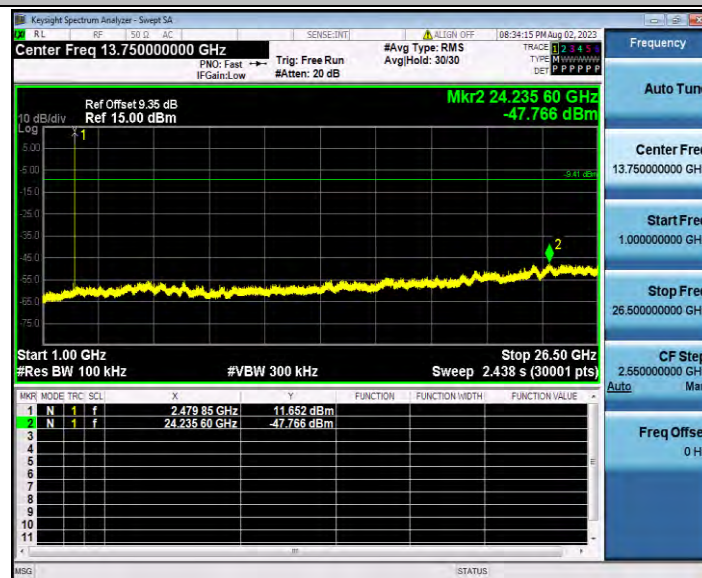




3DH1_Ant2_2480_0~Reference



3DH1_Ant2_2480_30~1000



3DH1_Ant2_2480_1000~26500