

Case No. : <u>GTS20250626004-3-01</u>	
Ambient Condition: <u>24</u> °C, <u>56</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.7.3-2025.9.3</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	0.921	2401.541	2402.462	---	---
		2441	0.942	2440.523	2441.465	---	---
		2480	0.933	2479.538	2480.471	---	---
2DH1	Ant1	2402	1.320	2401.322	2402.642	---	---
		2441	1.308	2440.325	2441.633	---	---
		2480	1.317	2479.322	2480.639	---	---
3DH1	Ant1	2402	1.260	2401.364	2402.624	---	---
		2441	1.278	2440.346	2441.624	---	---
		2480	1.278	2479.346	2480.624	---	---

Test Graphs

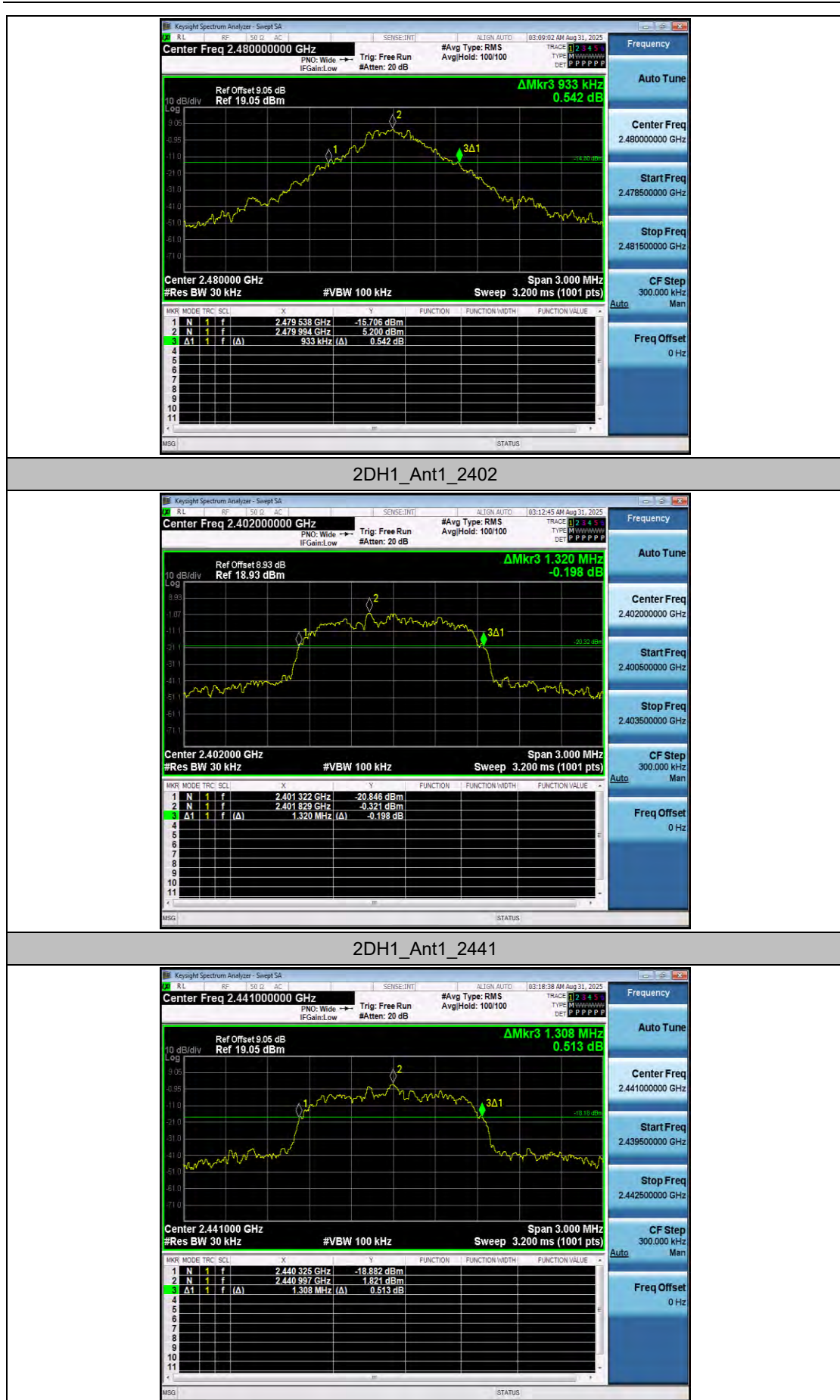
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441

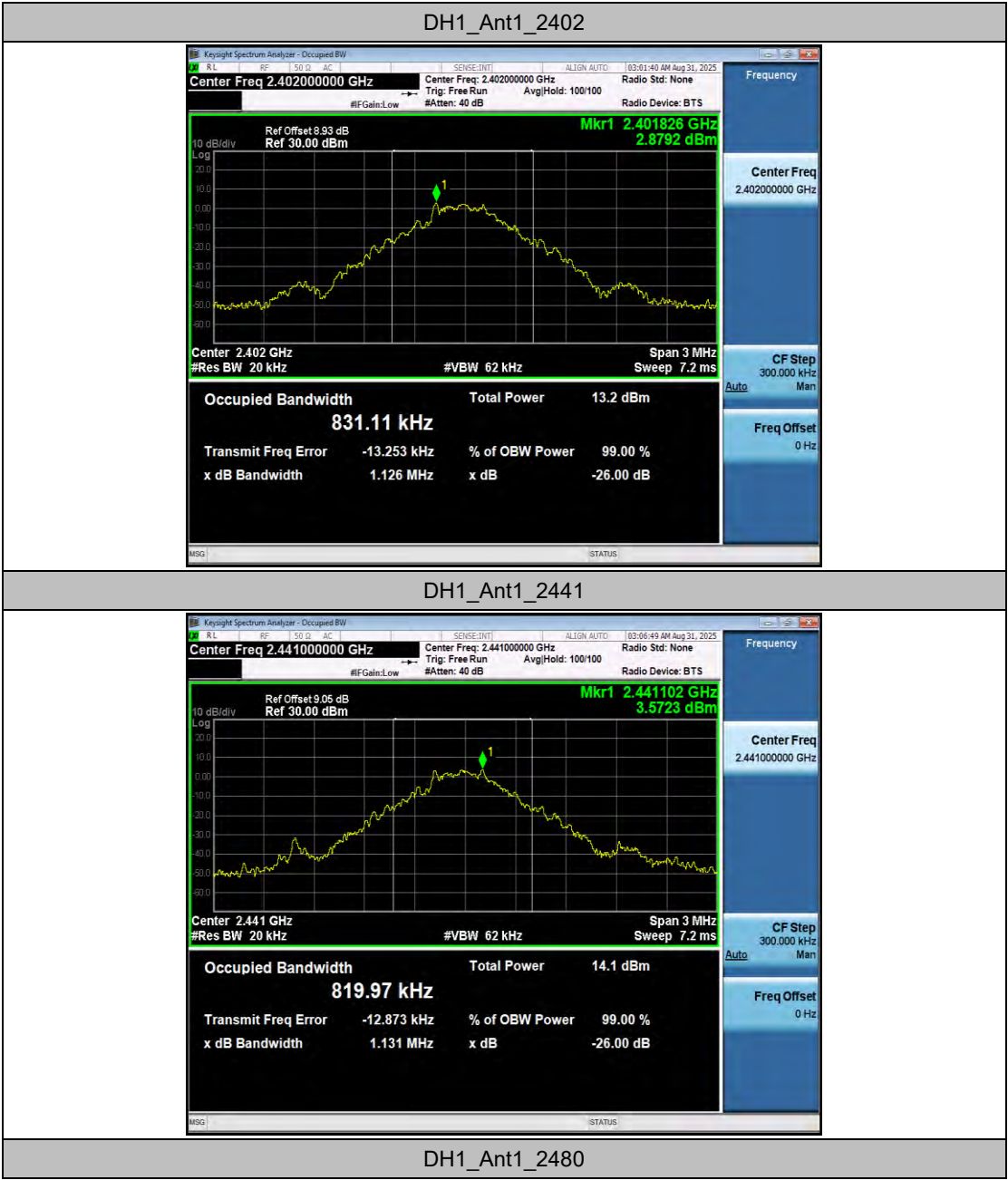


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.83111	2401.5712	2402.4023	---	---
		2441	0.81997	2440.5771	2441.3971	---	---
		2480	0.83624	2479.5673	2480.4035	---	---
2DH1	Ant1	2402	1.1789	2401.3923	2402.5712	---	---
		2441	1.1780	2440.3909	2441.5689	---	---
		2480	1.1757	2479.3915	2480.5672	---	---
3DH1	Ant1	2402	1.1628	2401.4202	2402.5830	---	---
		2441	1.1666	2440.4157	2441.5823	---	---
		2480	1.1658	2479.4142	2480.5800	---	---

Test Graphs





2DH1_Ant1_2402



2DH1_Ant1_2441



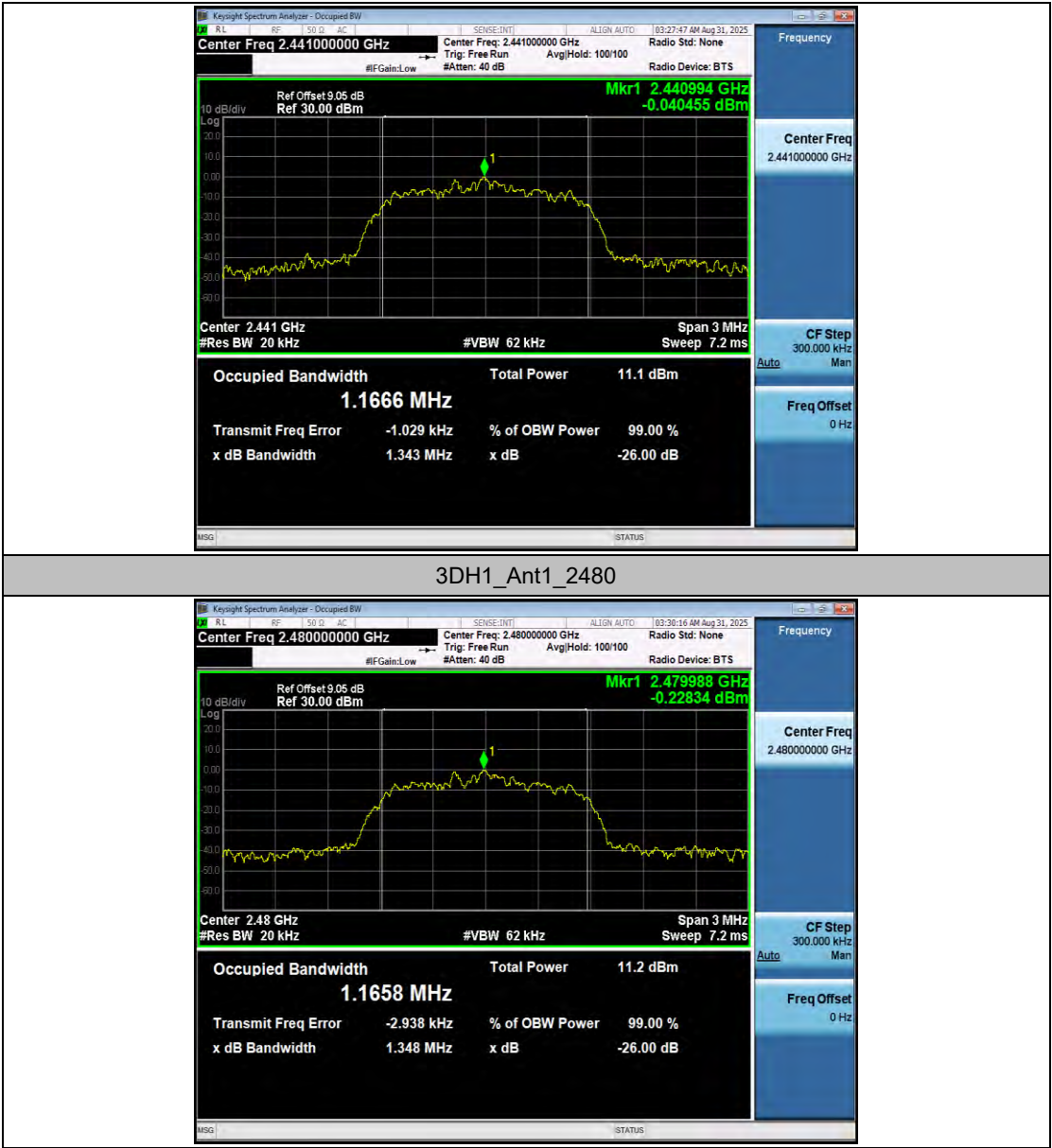
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



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	8.35	≤20.97	PASS
		2441	9.27	≤20.97	PASS
		2480	9.28	≤20.97	PASS
2DH1	Ant1	2402	7.5	≤20.97	PASS
		2441	8.46	≤20.97	PASS
		2480	8.45	≤20.97	PASS
3DH1	Ant1	2402	7.71	≤20.97	PASS
		2441	8.79	≤20.97	PASS
		2480	8.72	≤20.97	PASS

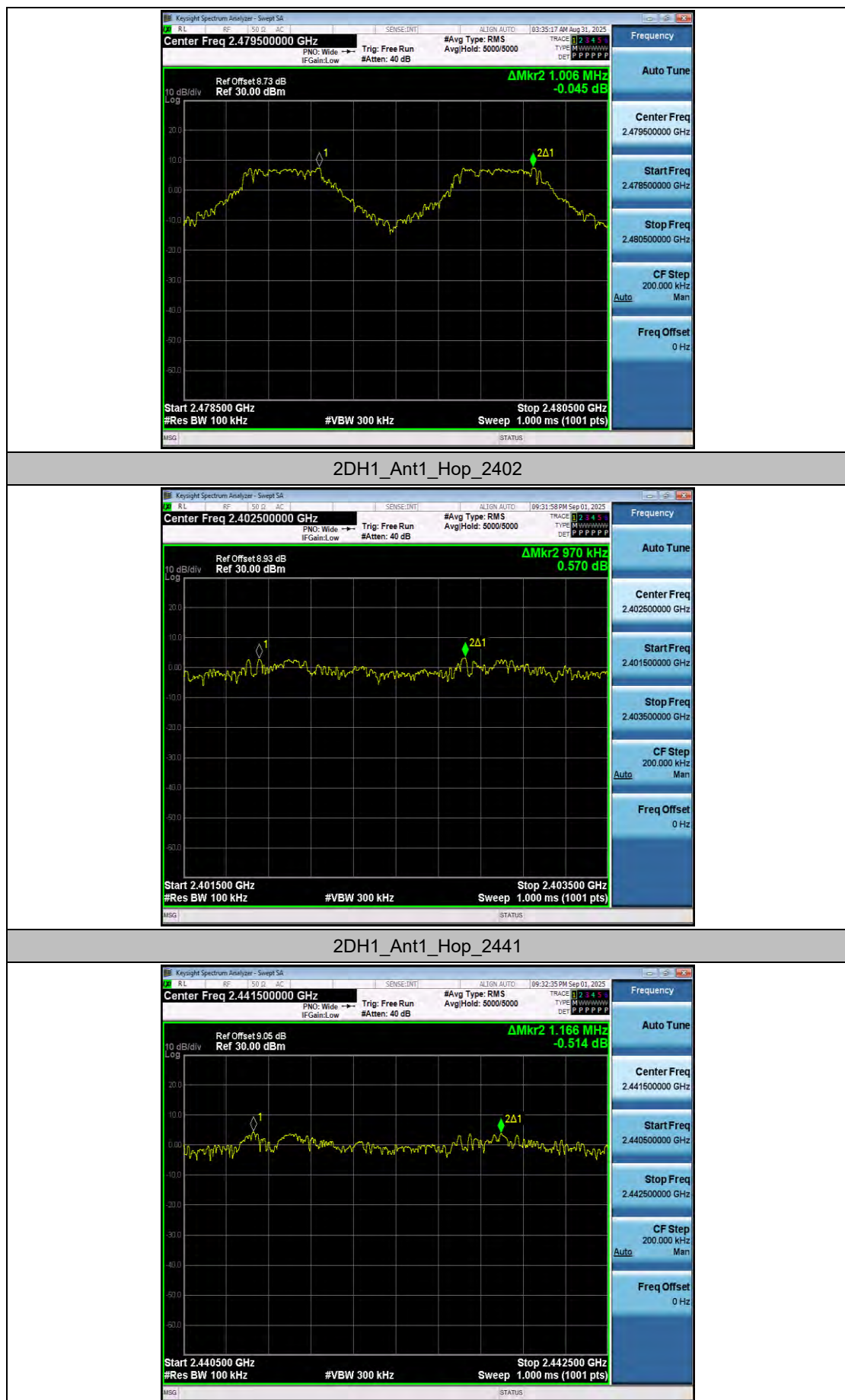
Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.002	≥ 0.621	PASS
		Hop_2441	1.008	≥ 0.621	PASS
		Hop_2480	1.006	≥ 0.621	PASS
2DH1	Ant1	Hop_2402	0.97	≥ 0.880	PASS
		Hop_2441	1.166	≥ 0.880	PASS
		Hop_2480	1.158	≥ 0.880	PASS
3DH1	Ant1	Hop_2402	0.974	≥ 0.852	PASS
		Hop_2441	0.992	≥ 0.852	PASS
		Hop_2480	1.006	≥ 0.852	PASS

Test Graphs





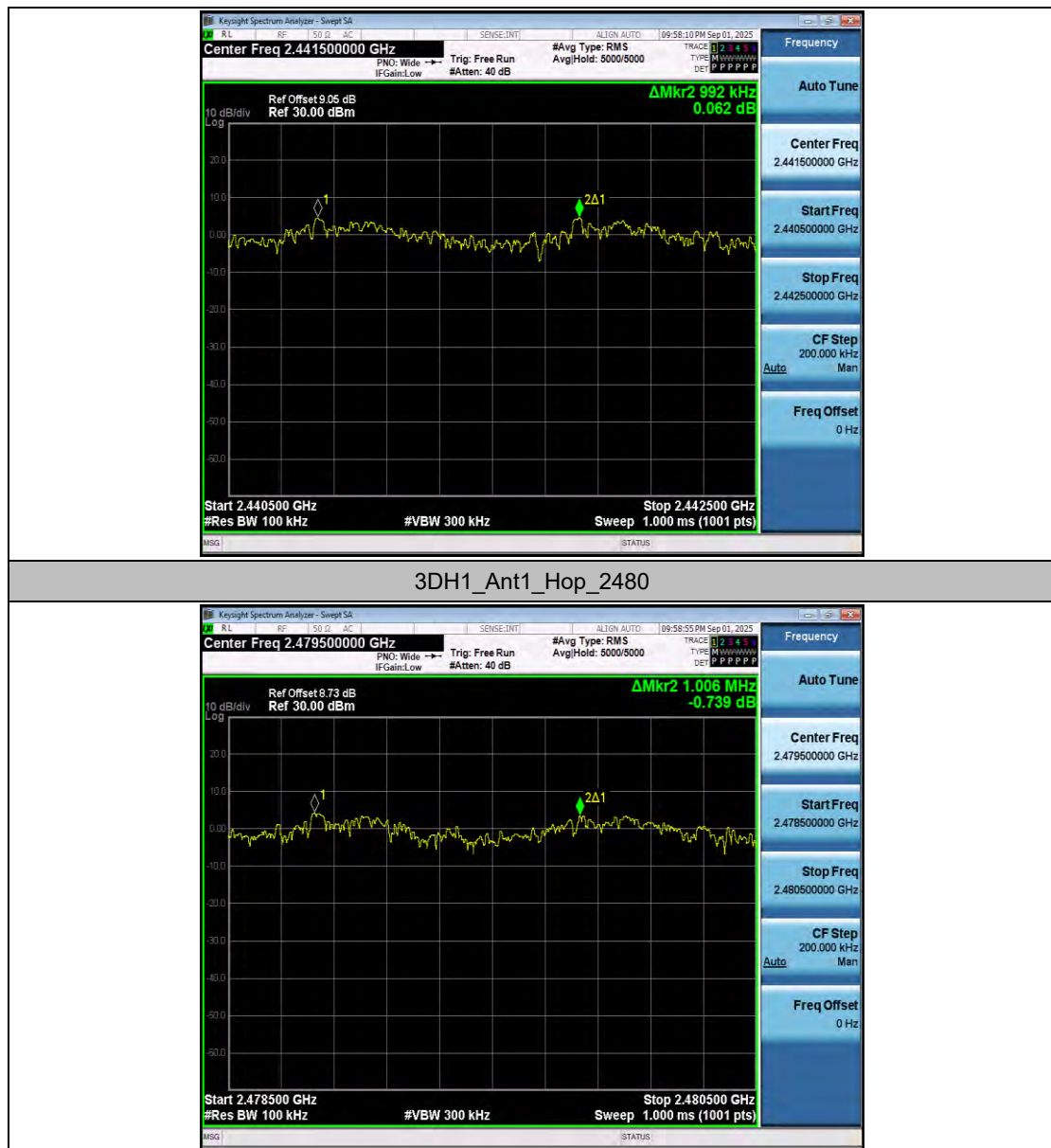
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

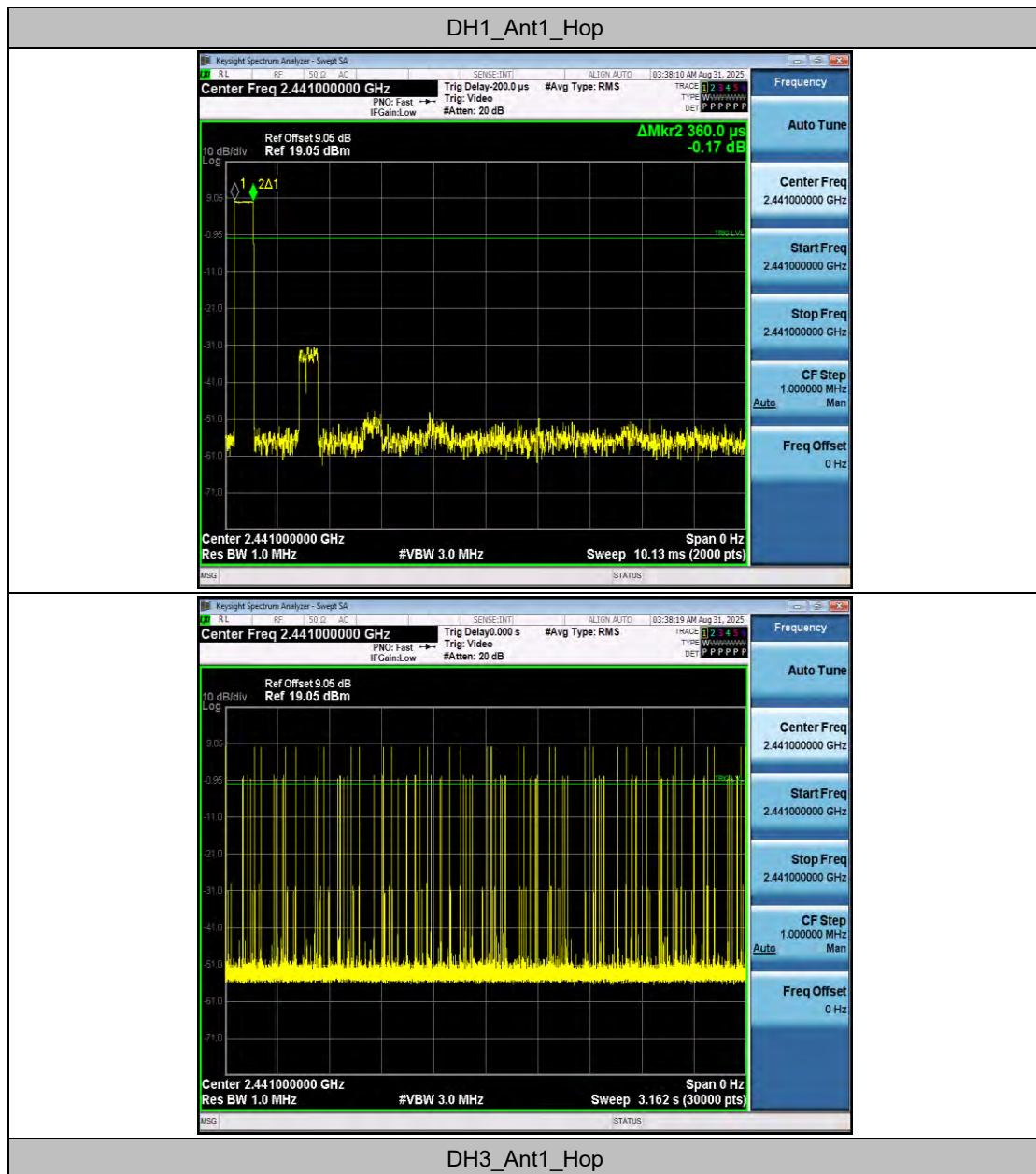


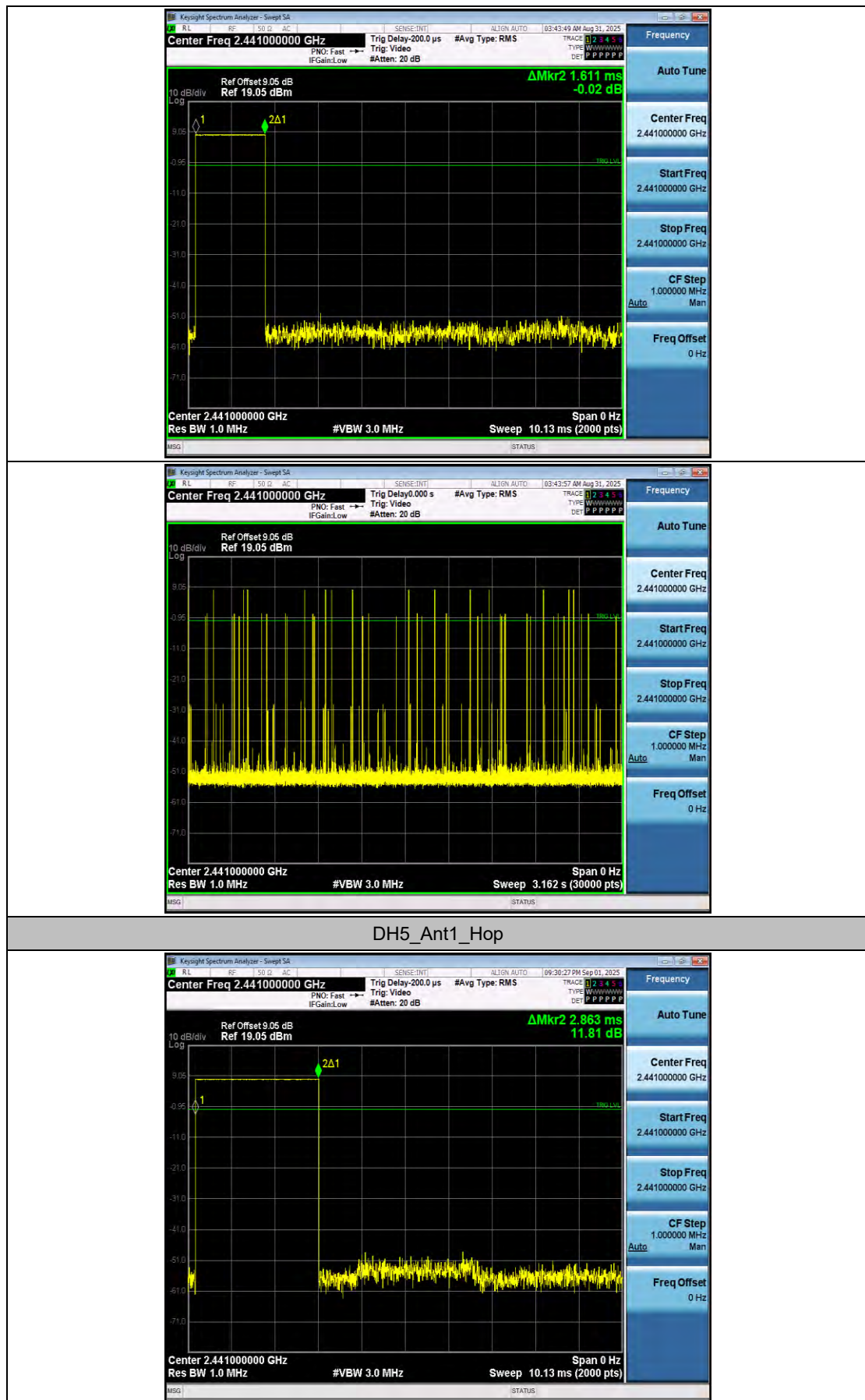
Appendix A.5: Time of occupancy

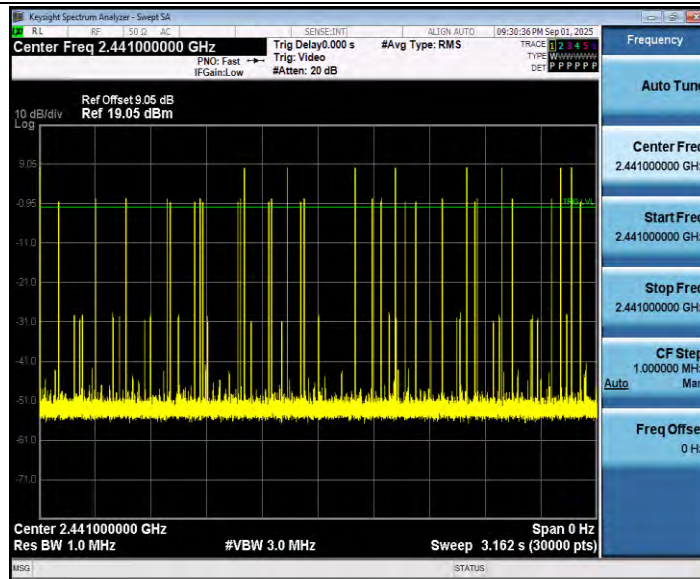
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.611	150	0.242	≤0.4	PASS
DH5	Ant1	Hop	2.863	90	0.258	≤0.4	PASS
2DH1	Ant1	Hop	0.360	320	0.115	≤0.4	PASS
2DH3	Ant1	Hop	1.616	150	0.242	≤0.4	PASS
2DH5	Ant1	Hop	2.863	110	0.315	≤0.4	PASS
3DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.616	160	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.863	120	0.344	≤0.4	PASS

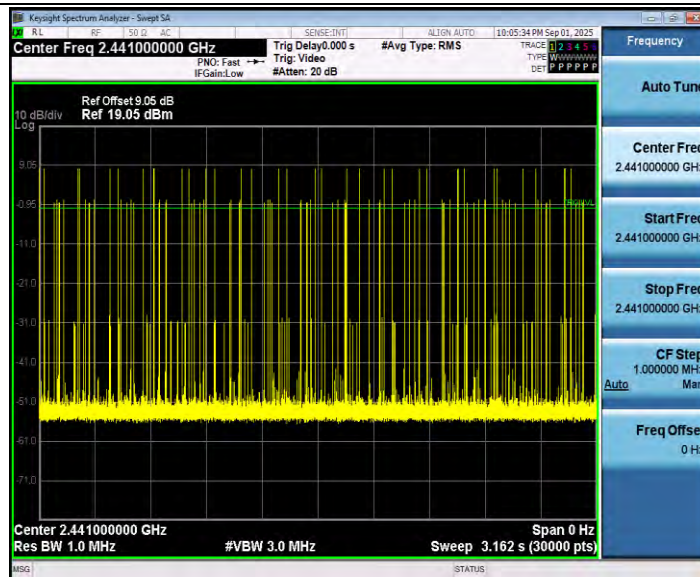
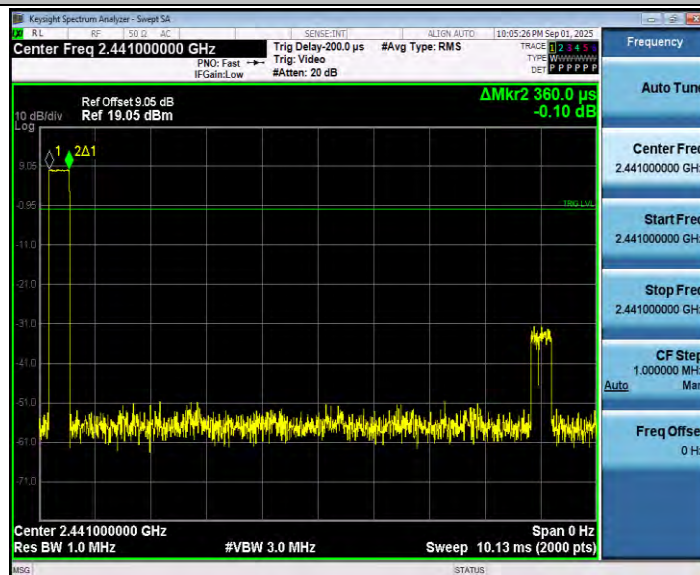
Test Graphs



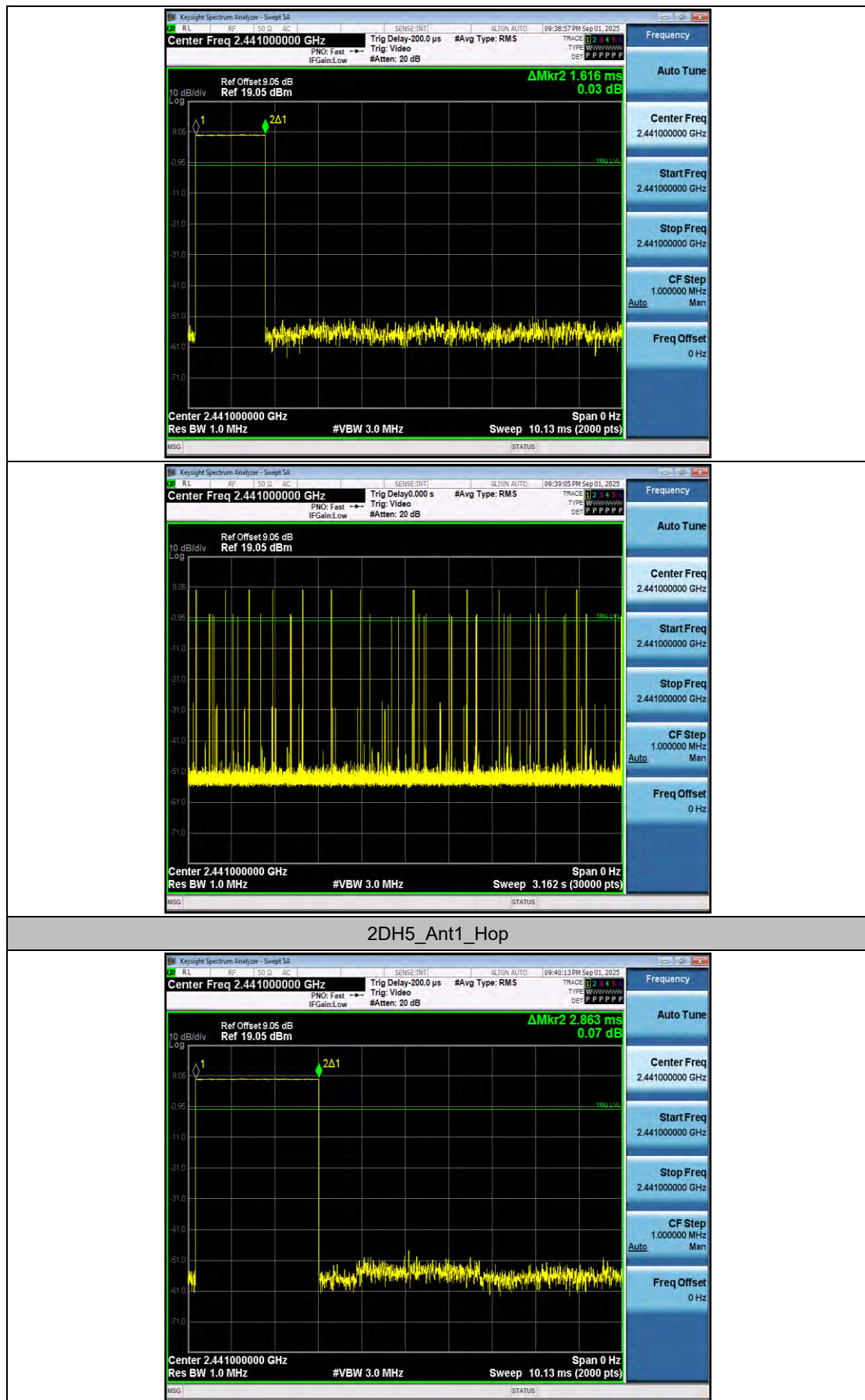


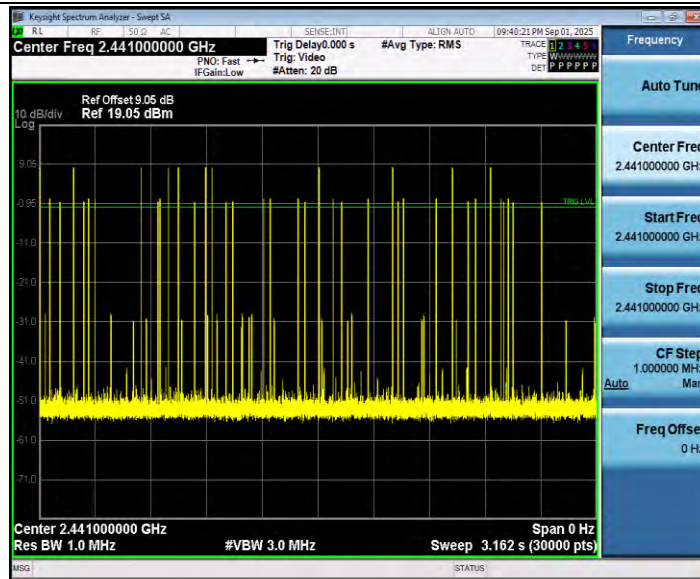


2DH1_Ant1_Hop

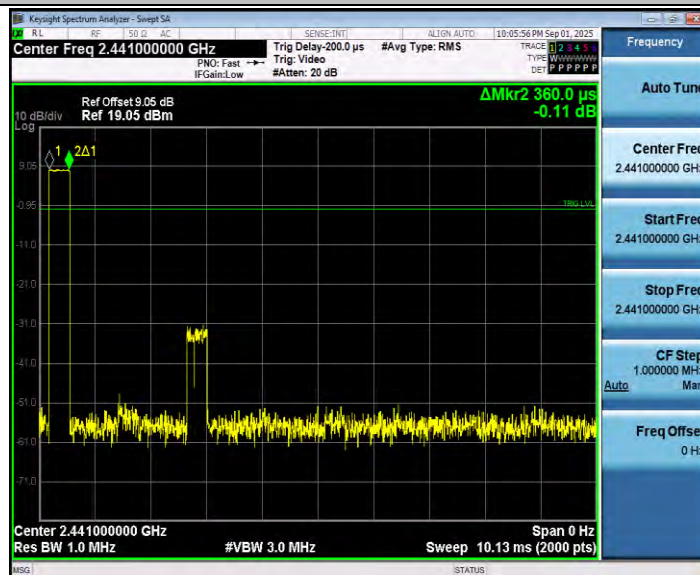


2DH3_Ant1_Hop

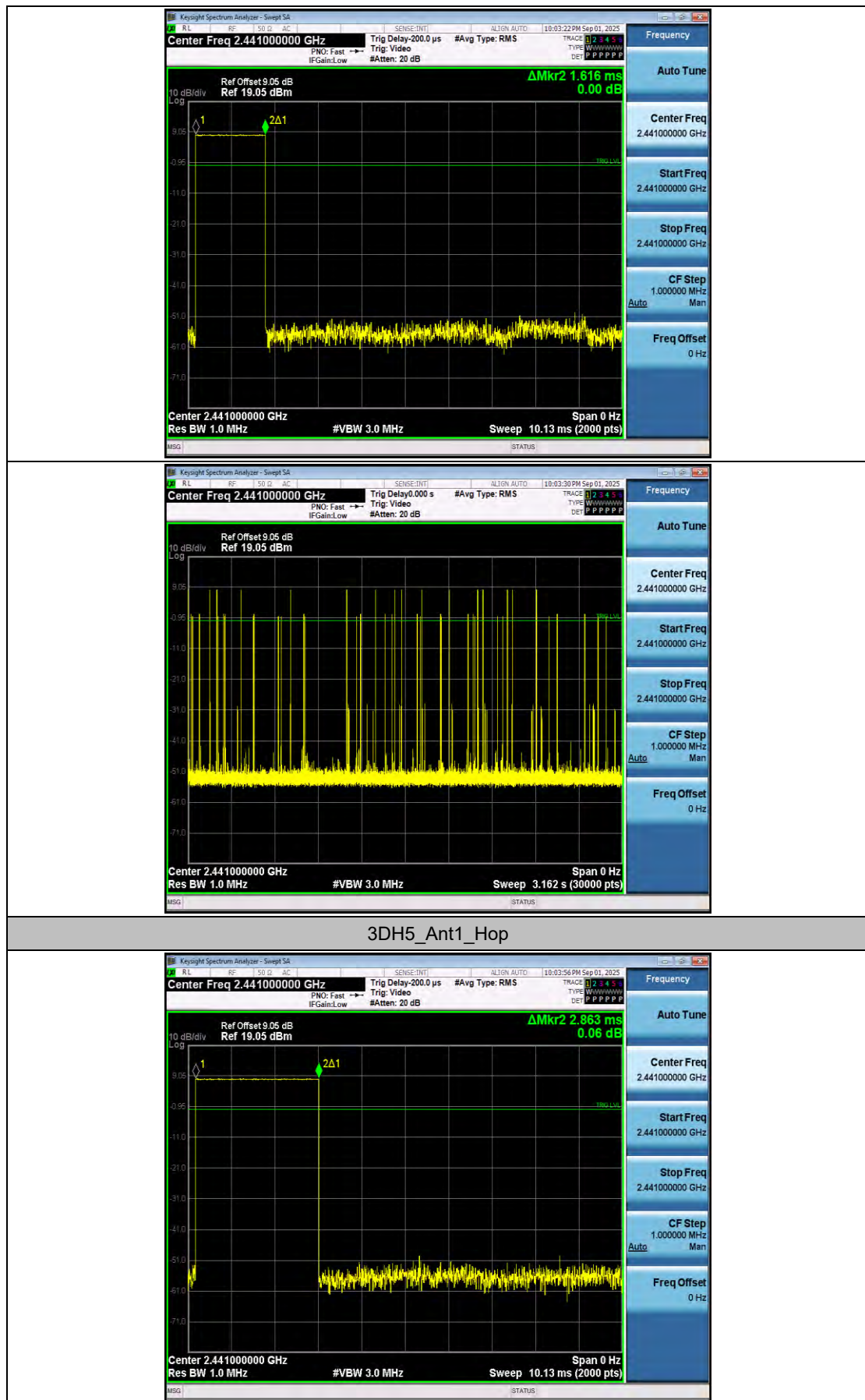


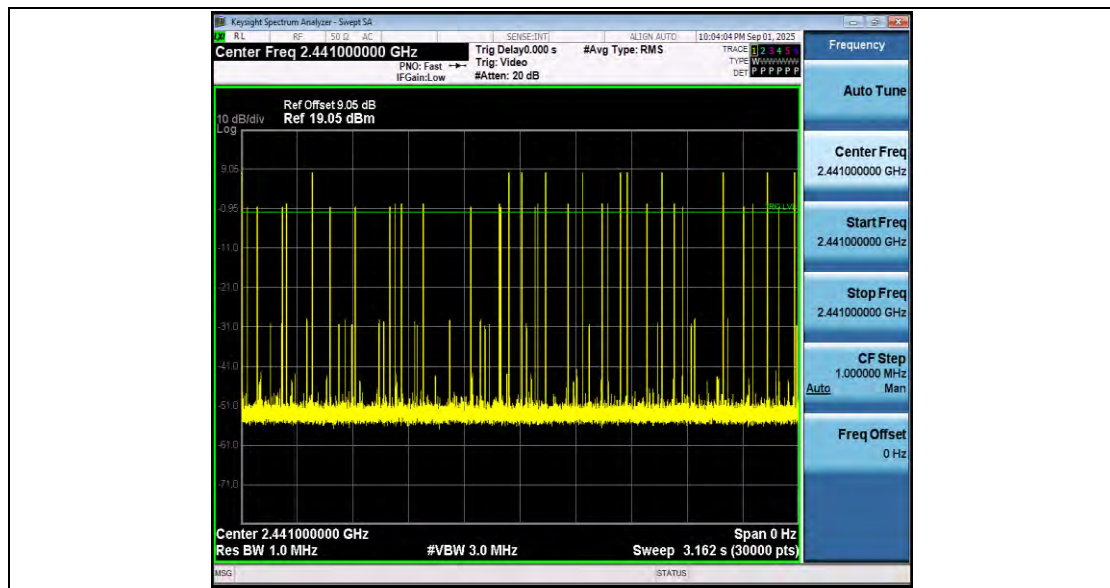


3DH1_Ant1_Hop



3DH3_Ant1_Hop



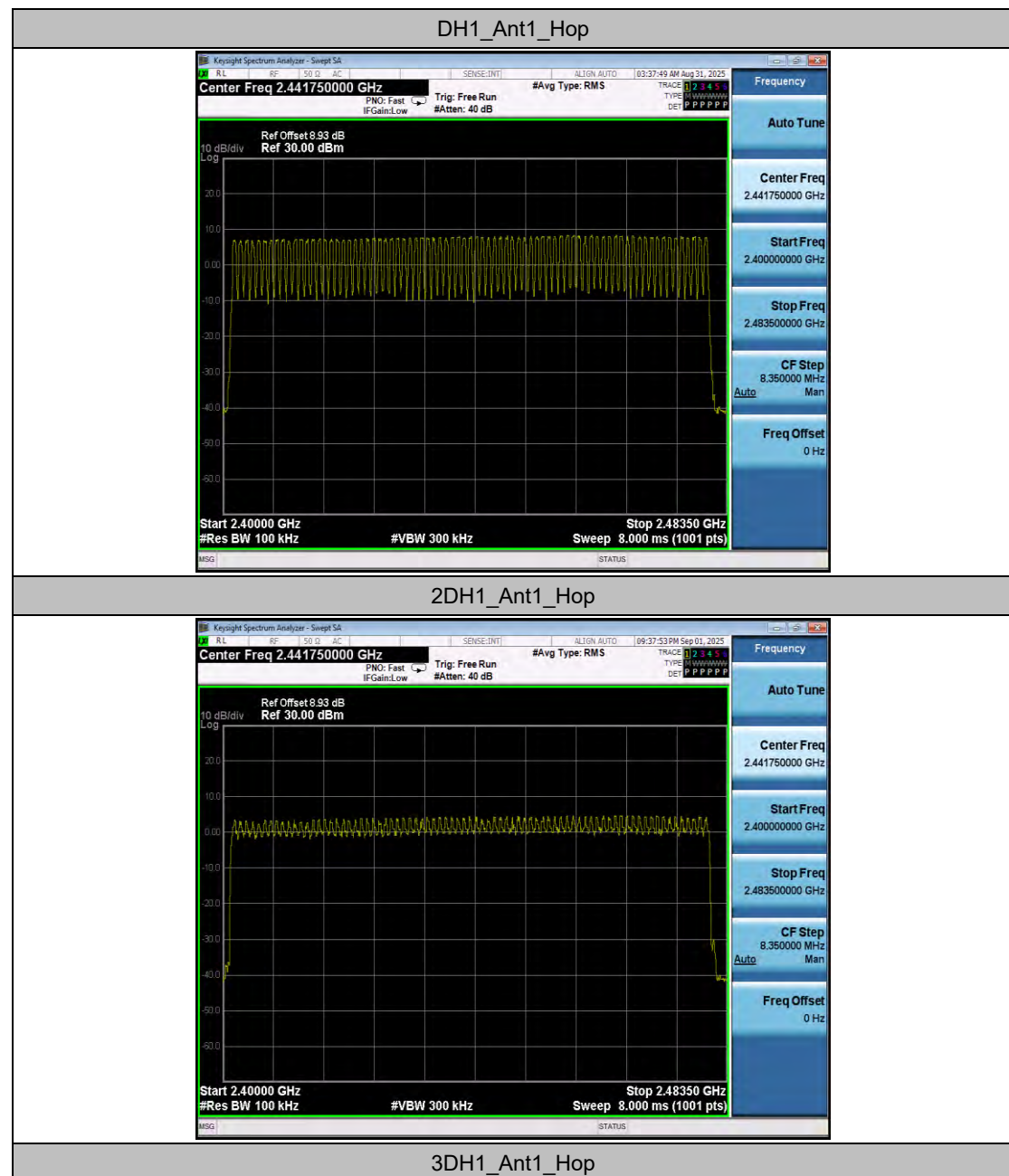


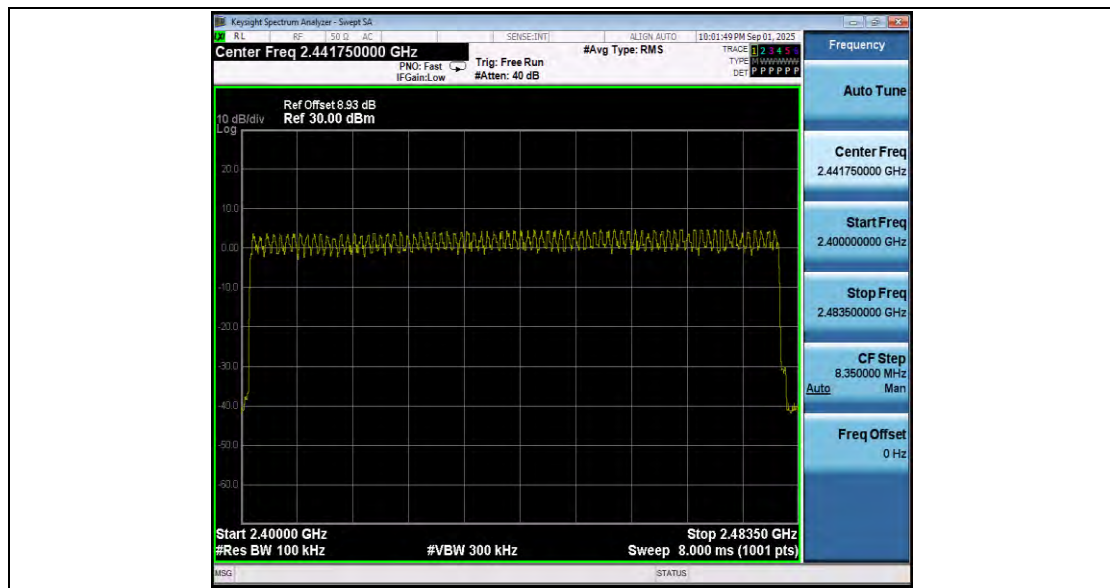
Appendix A.6: Number of hopping channels

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





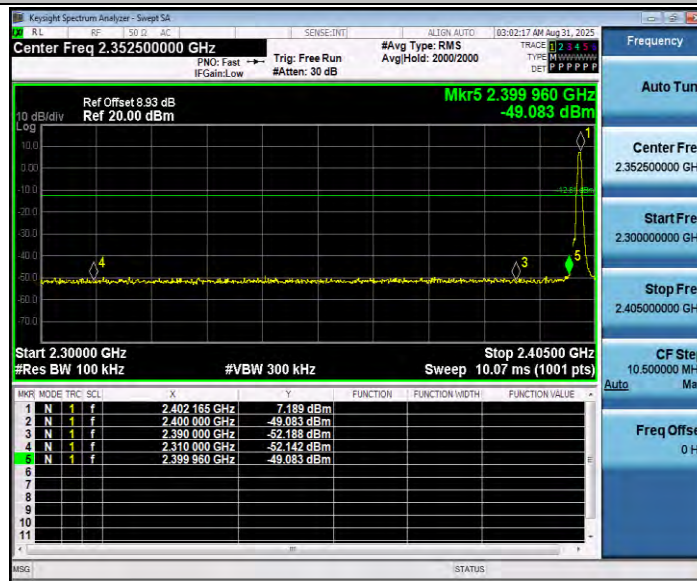
Appendix A.7: Band edge measurements

Test Result

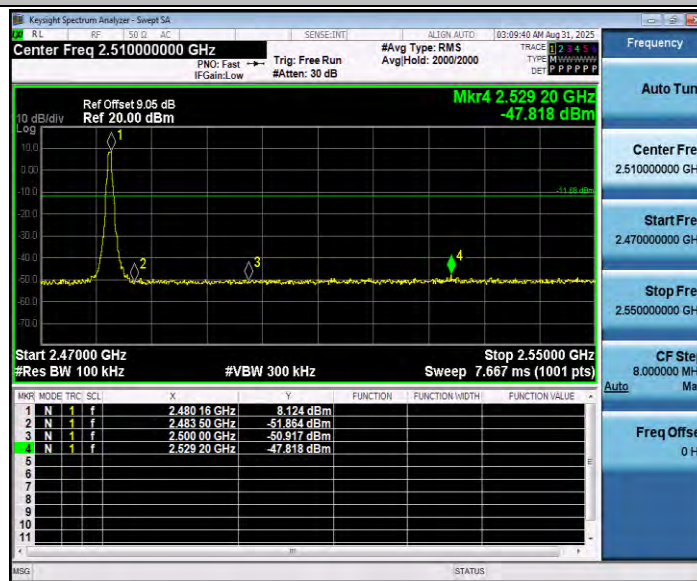
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	7.19	-49.08	≤ -12.81	PASS
		High	2480	8.12	-47.82	≤ -11.88	PASS
		Low	Hop_2402	6.81	-48.65	≤ -13.19	PASS
		High	Hop_2480	8.17	-48.82	≤ -11.83	PASS
2DH1	Ant1	Low	2402	3.63	-48.59	≤ -16.37	PASS
		High	2480	4.62	-48.91	≤ -15.38	PASS
		Low	Hop_2402	2.63	-49.36	≤ -17.37	PASS
		High	Hop_2480	4.20	-48.69	≤ -15.8	PASS
3DH1	Ant1	Low	2402	3.67	-47.58	≤ -16.33	PASS
		High	2480	4.70	-48.59	≤ -15.31	PASS
		Low	Hop_2402	3.19	-49.27	≤ -16.81	PASS
		High	Hop_2480	4.63	-48.07	≤ -15.37	PASS

Test Graphs

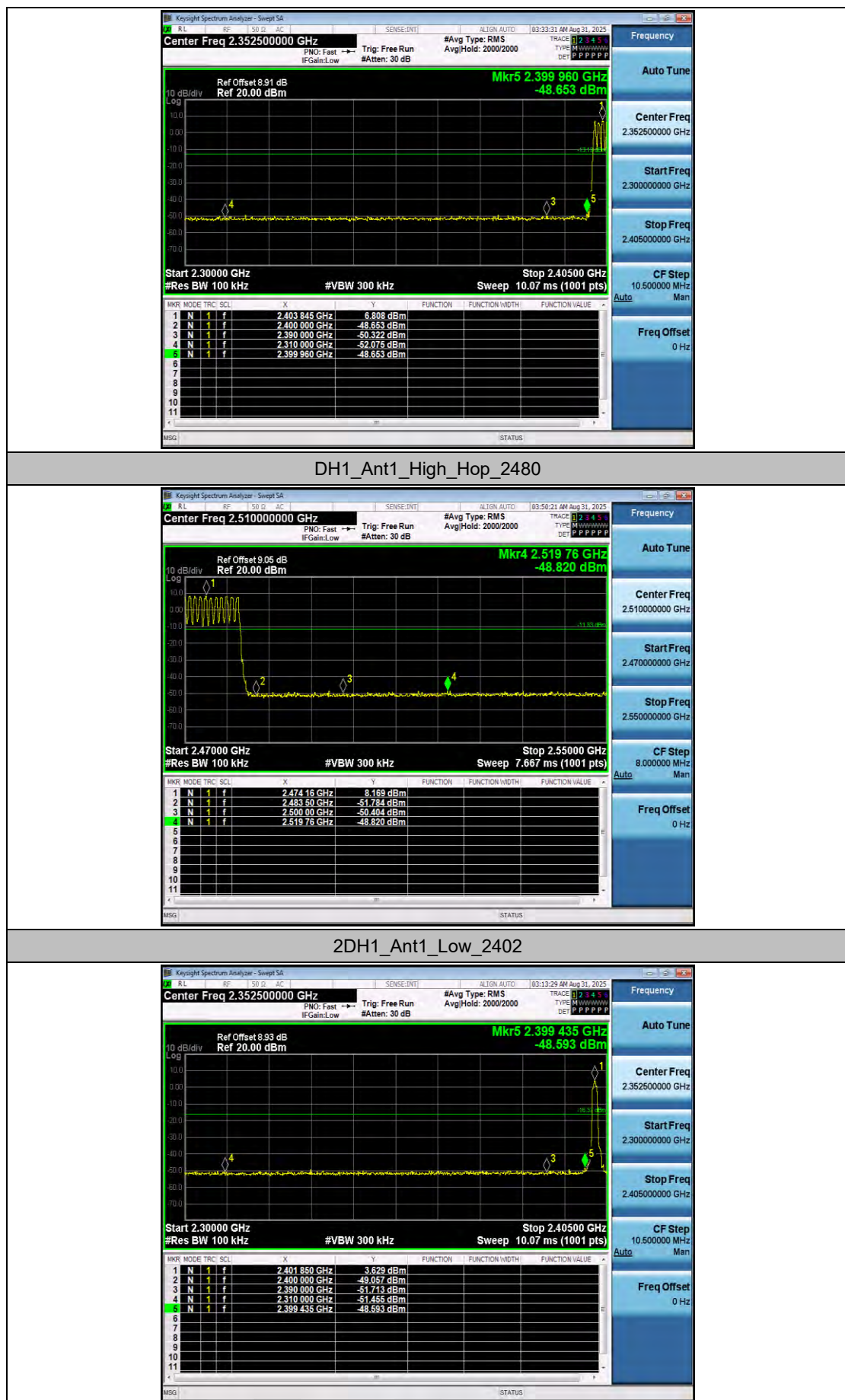
DH1_Ant1_Low_2402



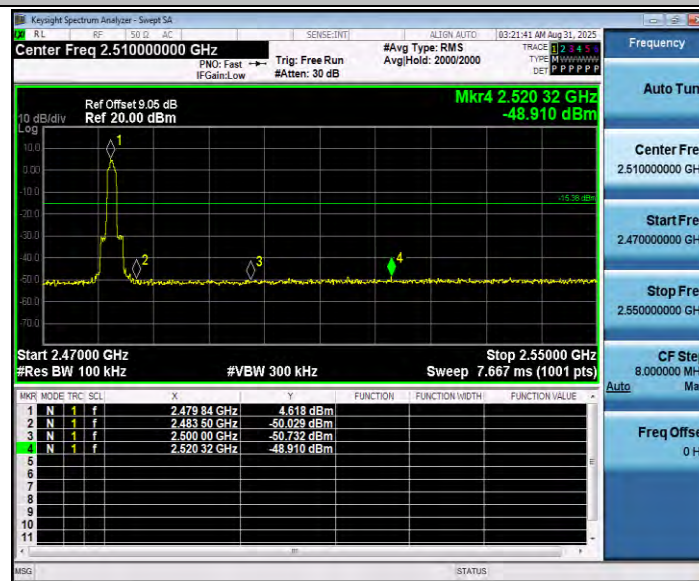
DH1_Ant1_High_2480



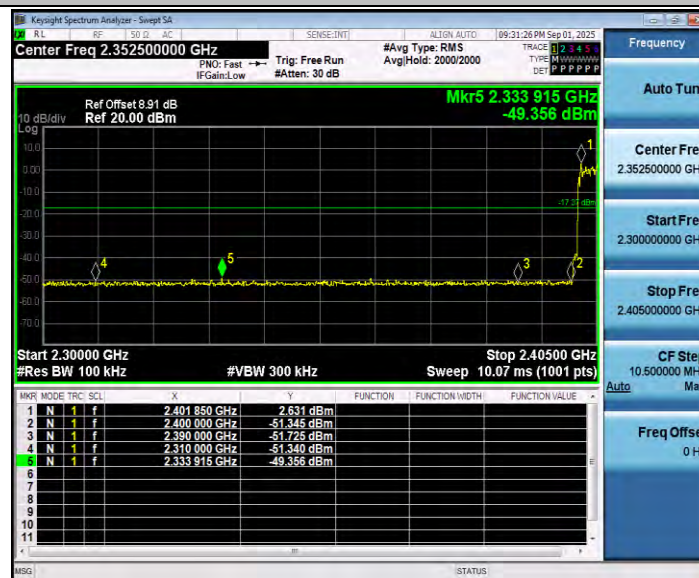
DH1_Ant1_Low_Hop_2402



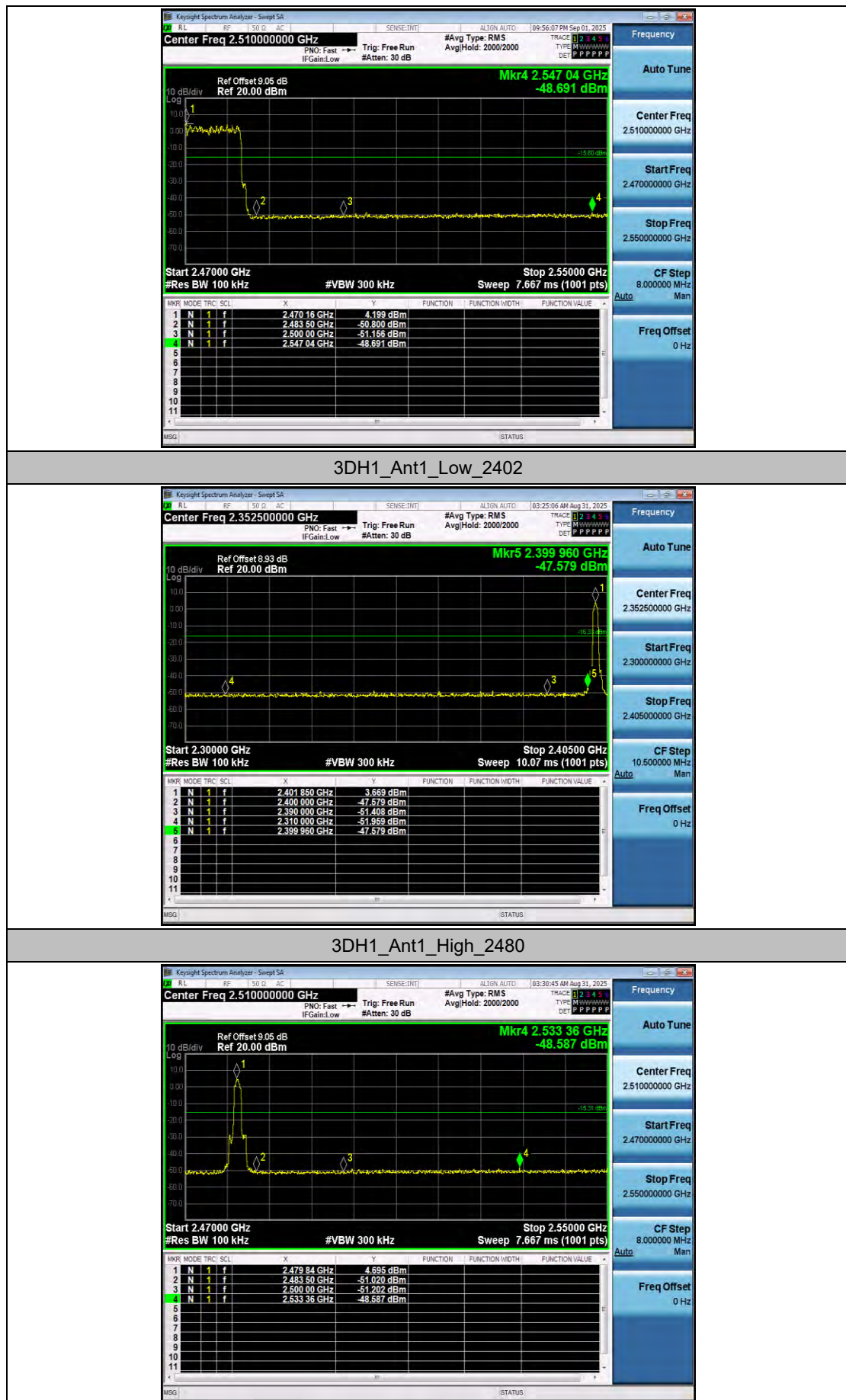
2DH1_Ant1_High_2480



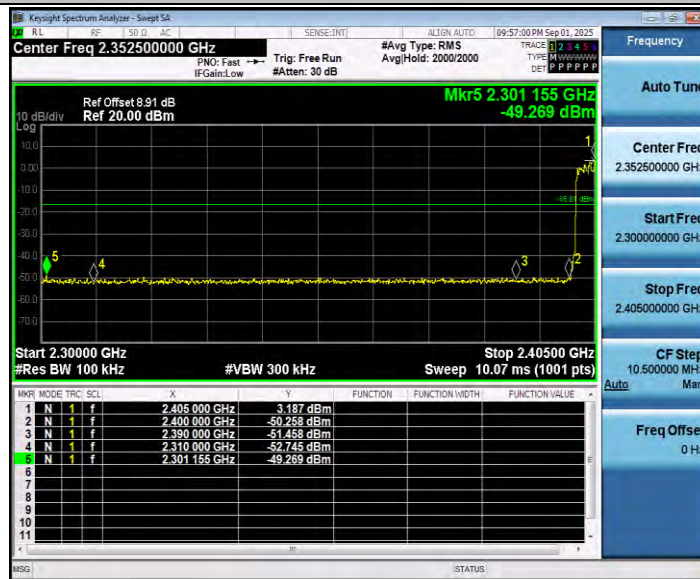
2DH1_Ant1_Low_Hop_2402



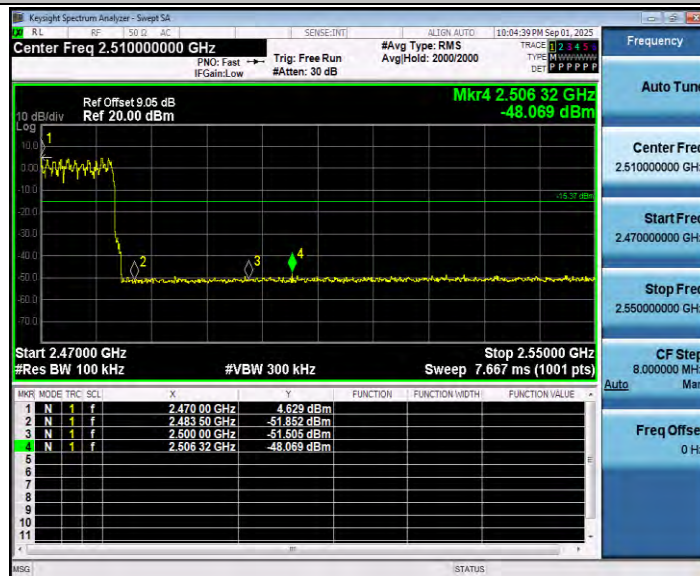
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

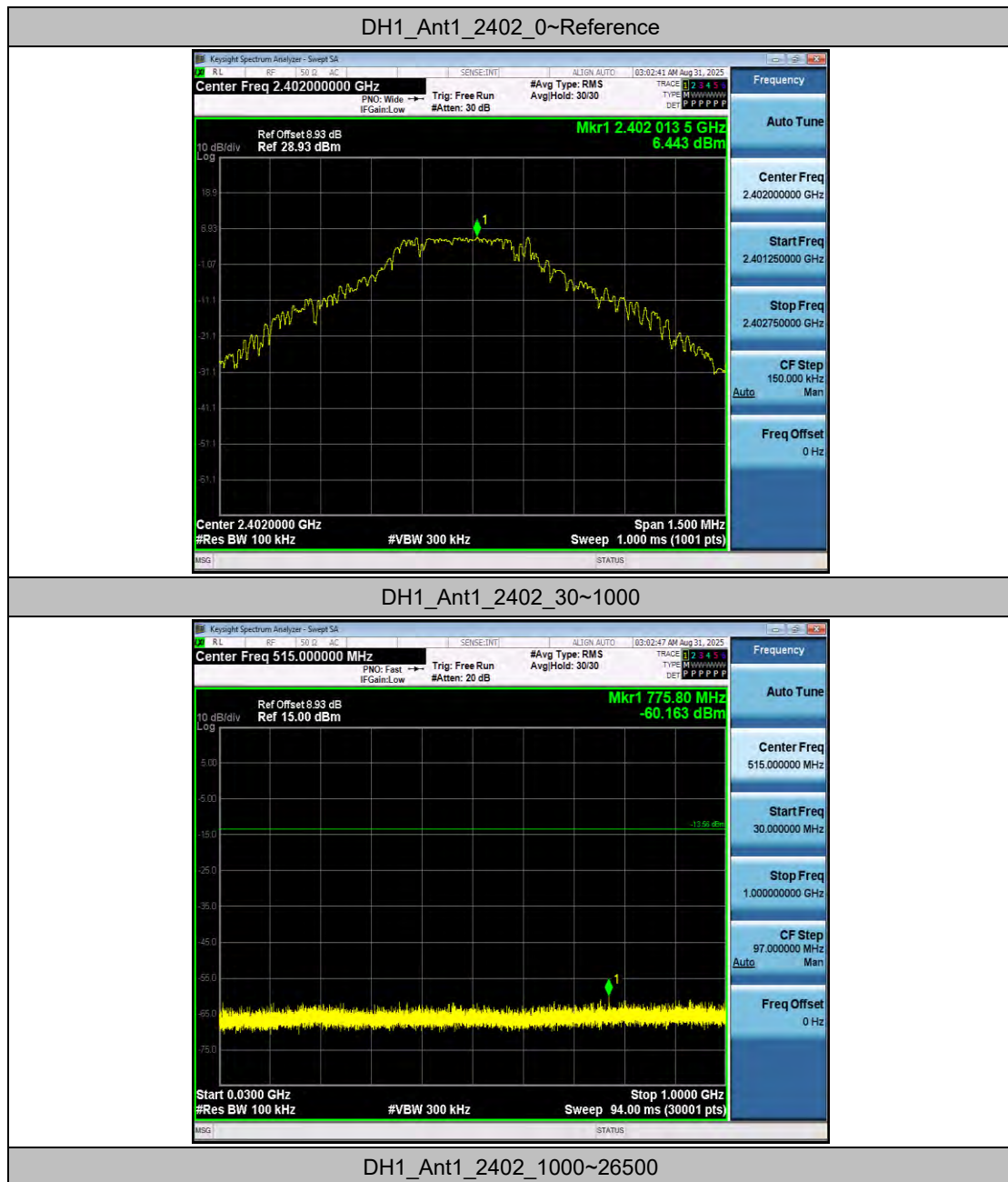


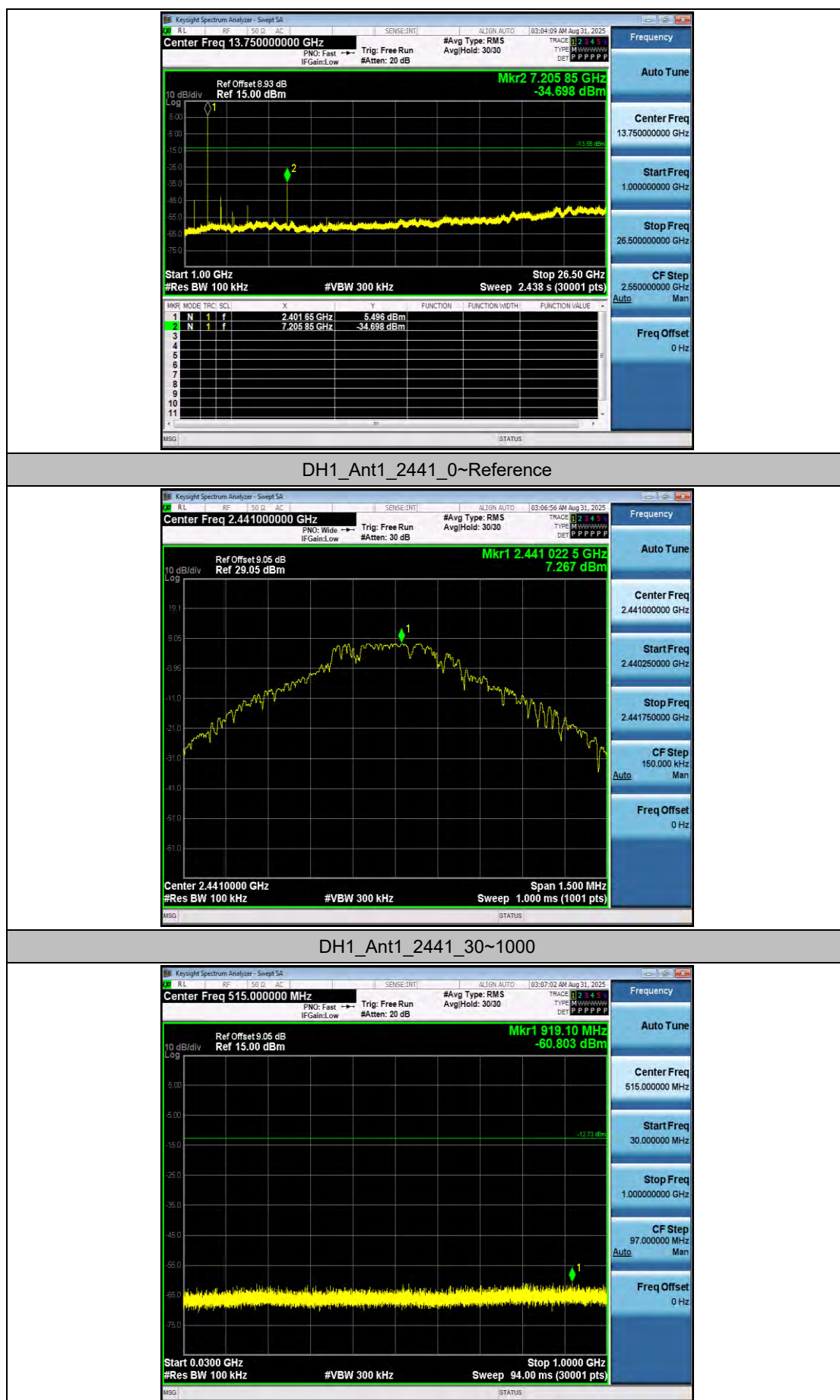
Appendix A.8: Conducted Spurious Emission

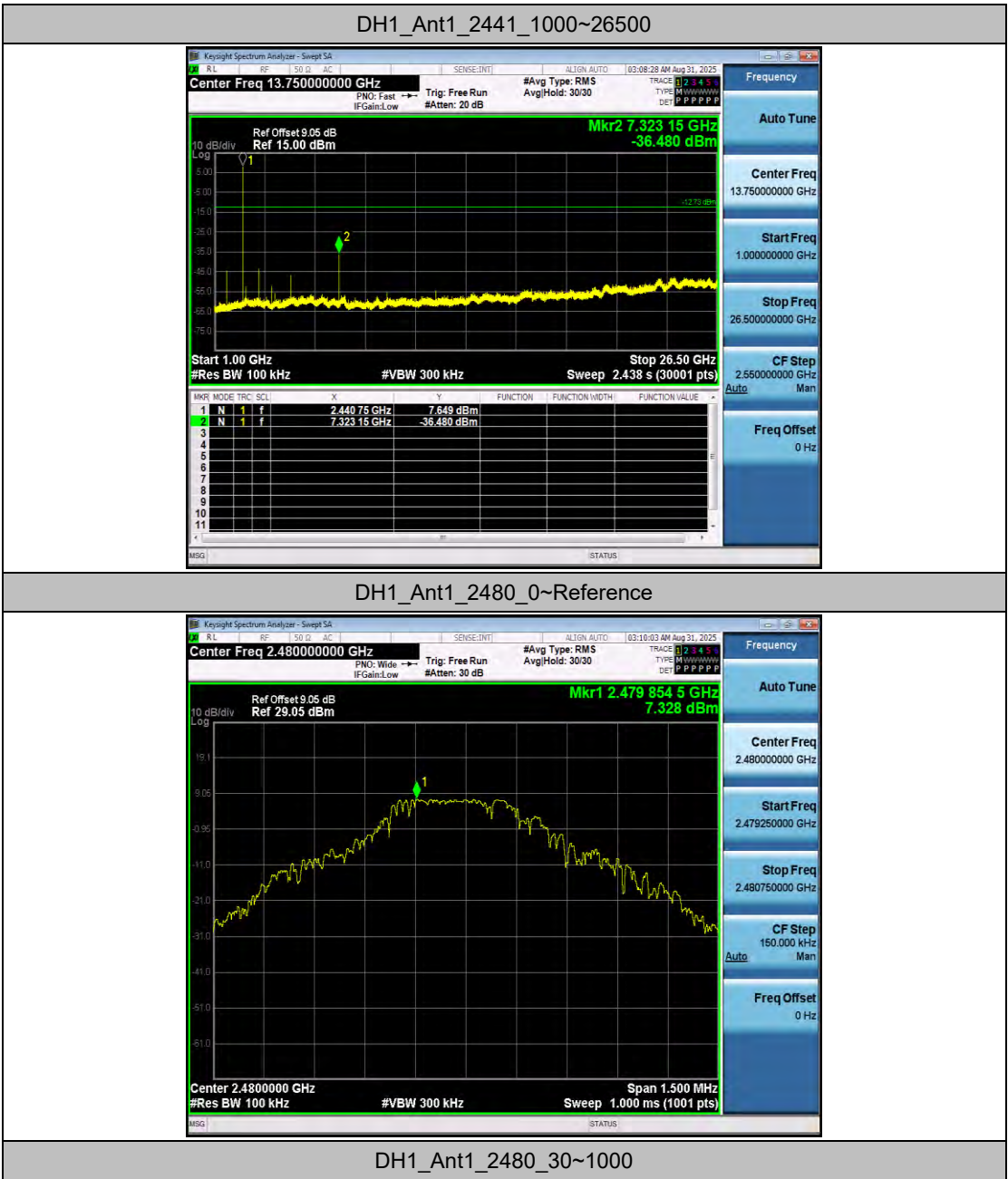
Test Result

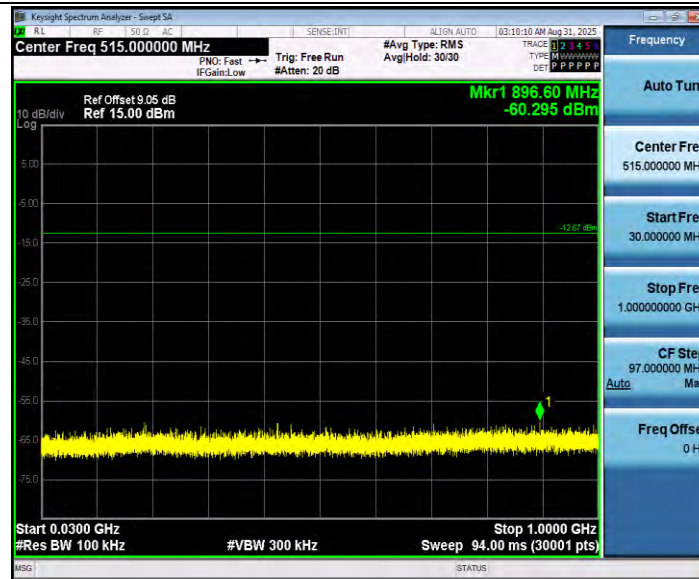
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	6.44	6.44	---	PASS
			30~1000	6.44	-60.16	≤ -13.56	PASS
			1000~26500	6.44	-34.7	≤ -13.56	PASS
		2441	Reference	7.27	7.27	---	PASS
			30~1000	7.27	-60.8	≤ -12.73	PASS
			1000~26500	7.27	-36.48	≤ -12.73	PASS
		2480	Reference	7.33	7.33	---	PASS
			30~1000	7.33	-60.3	≤ -12.67	PASS
			1000~26500	7.33	-41.64	≤ -12.67	PASS
2DH1	Ant1	2402	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-60.97	≤ -17.16	PASS
			1000~26500	2.84	-38.43	≤ -17.16	PASS
		2441	Reference	3.85	3.85	---	PASS
			30~1000	3.85	-51.72	≤ -16.15	PASS
			1000~26500	3.85	-41.11	≤ -16.15	PASS
		2480	Reference	4.30	4.30	---	PASS
			30~1000	4.30	-60.35	≤ -15.7	PASS
			1000~26500	4.30	-45.19	≤ -15.7	PASS
3DH1	Ant1	2402	Reference	2.86	2.86	---	PASS
			30~1000	2.86	-60.52	≤ -17.14	PASS
			1000~26500	2.86	-37.6	≤ -17.14	PASS
		2441	Reference	4.30	4.30	---	PASS
			30~1000	4.30	-59.91	≤ -15.7	PASS
			1000~26500	4.30	-39.66	≤ -15.7	PASS
		2480	Reference	4.54	4.54	---	PASS
			30~1000	4.54	-59.64	≤ -15.46	PASS
			1000~26500	4.54	-45.35	≤ -15.46	PASS

Test Graphs

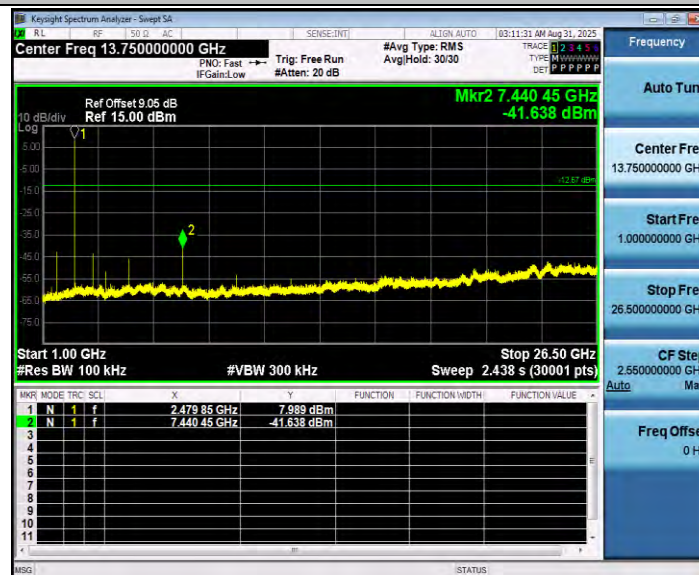






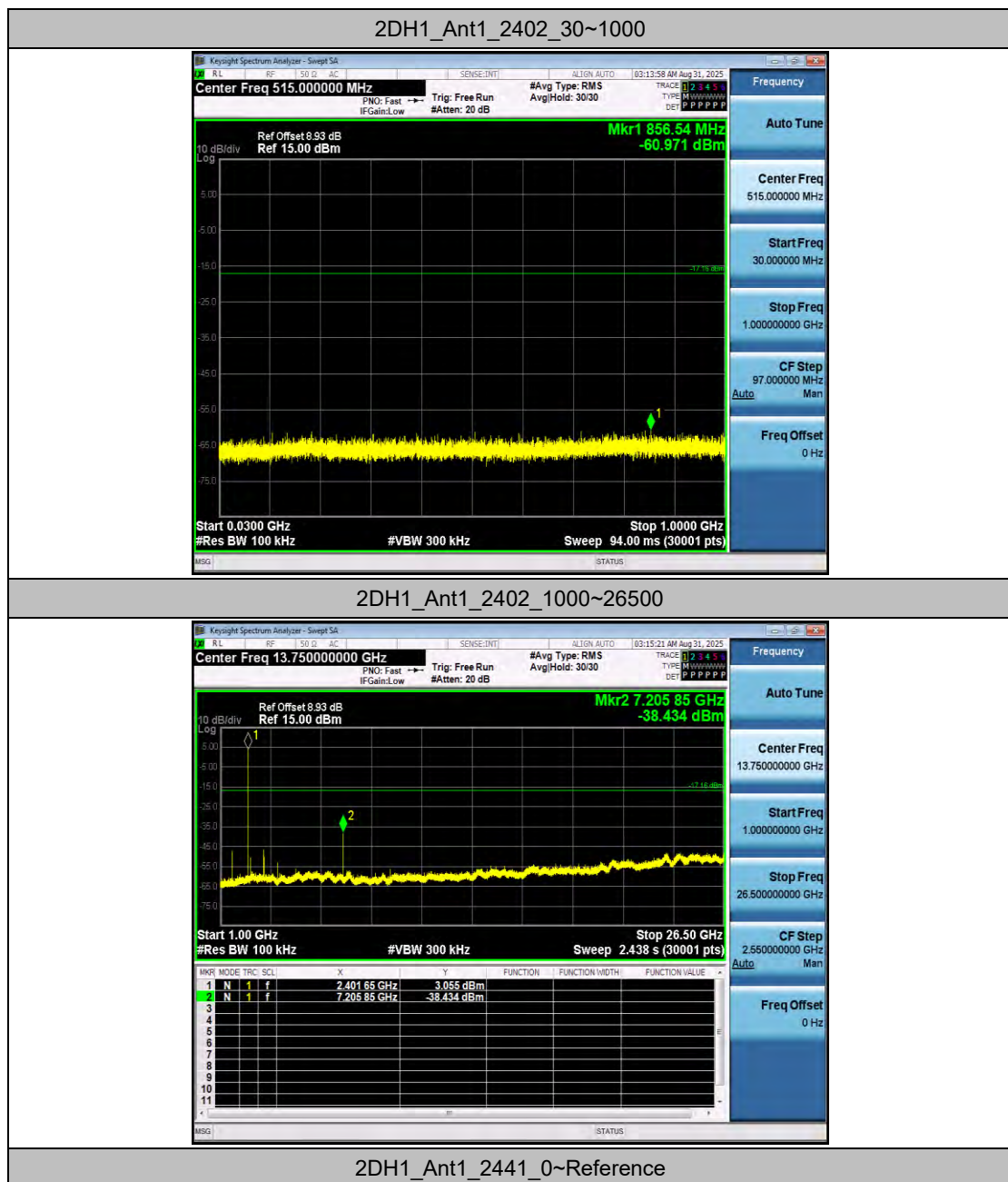


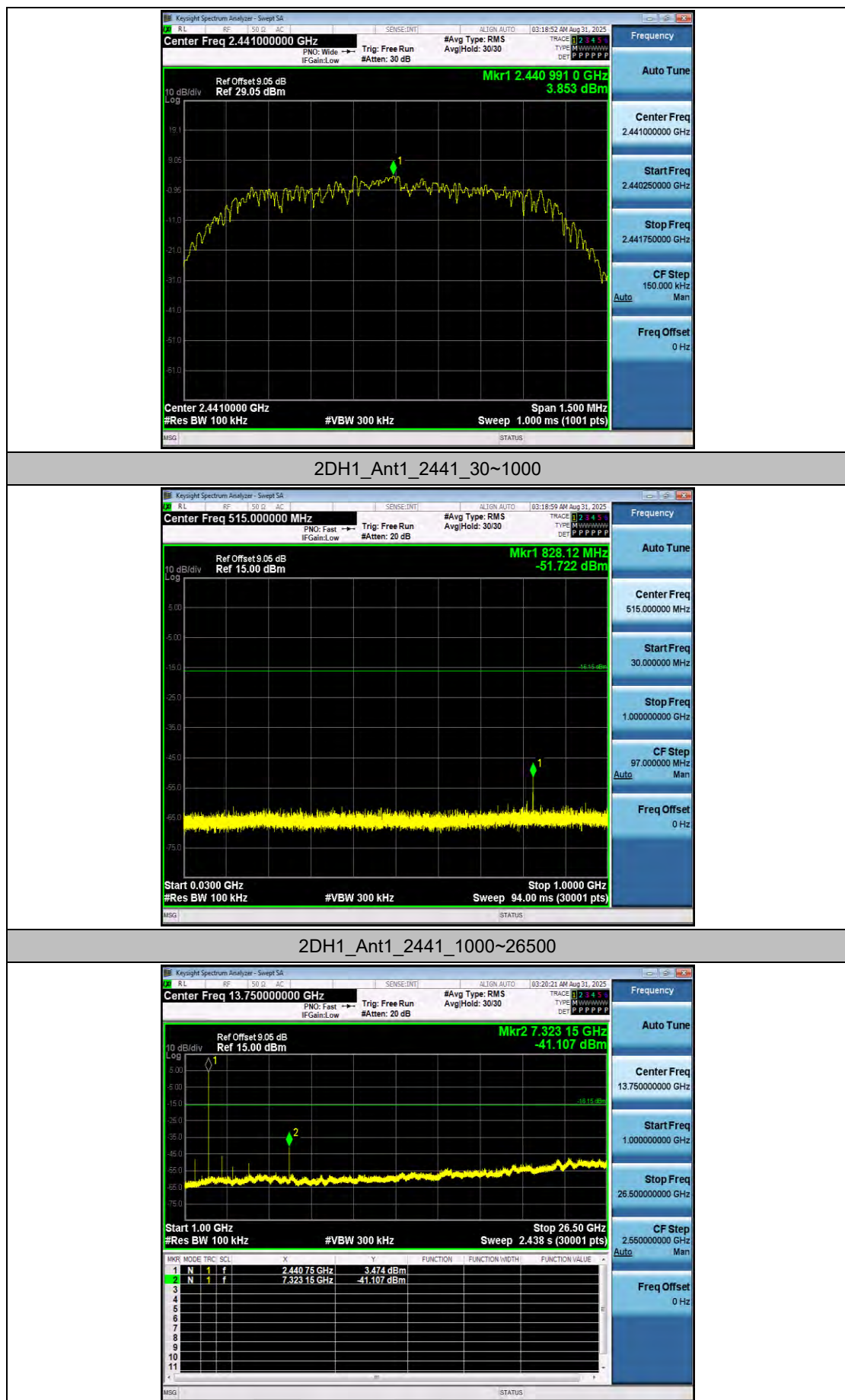
DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference



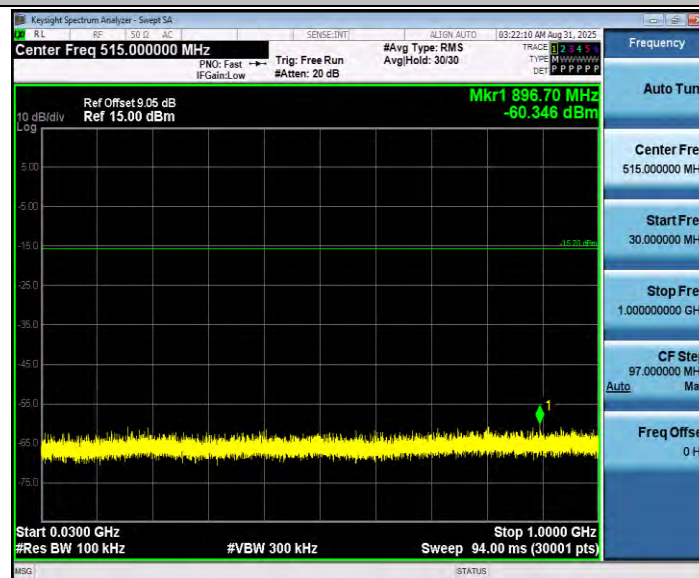




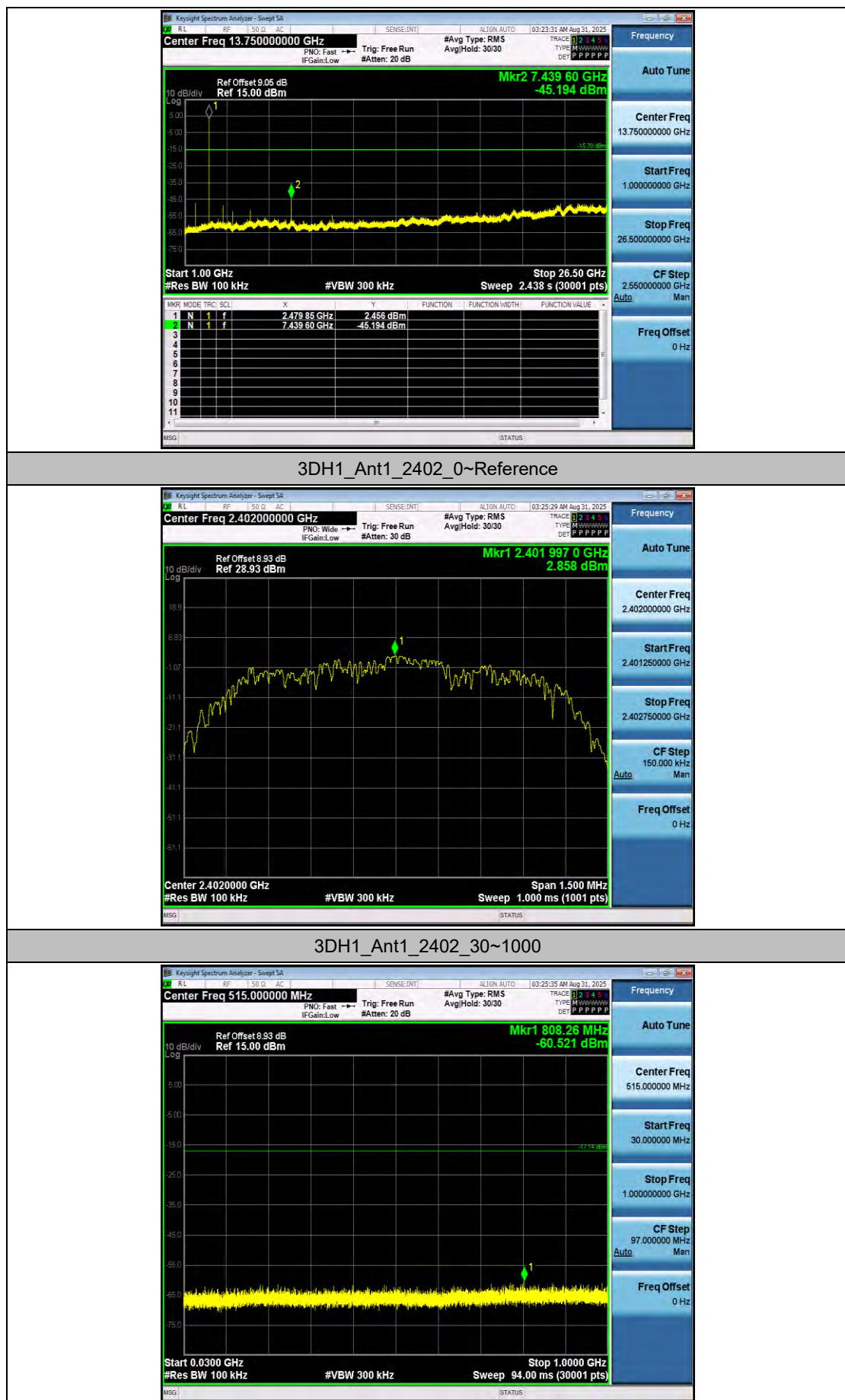
2DH1_Ant1_2480_0~Reference



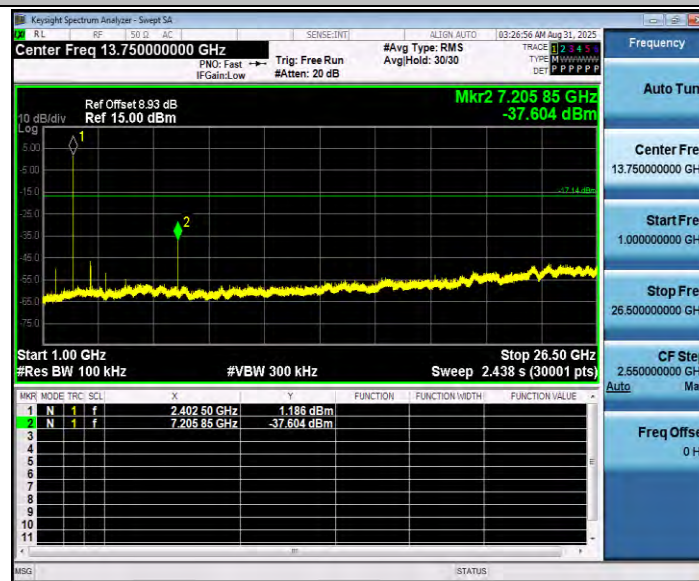
2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500



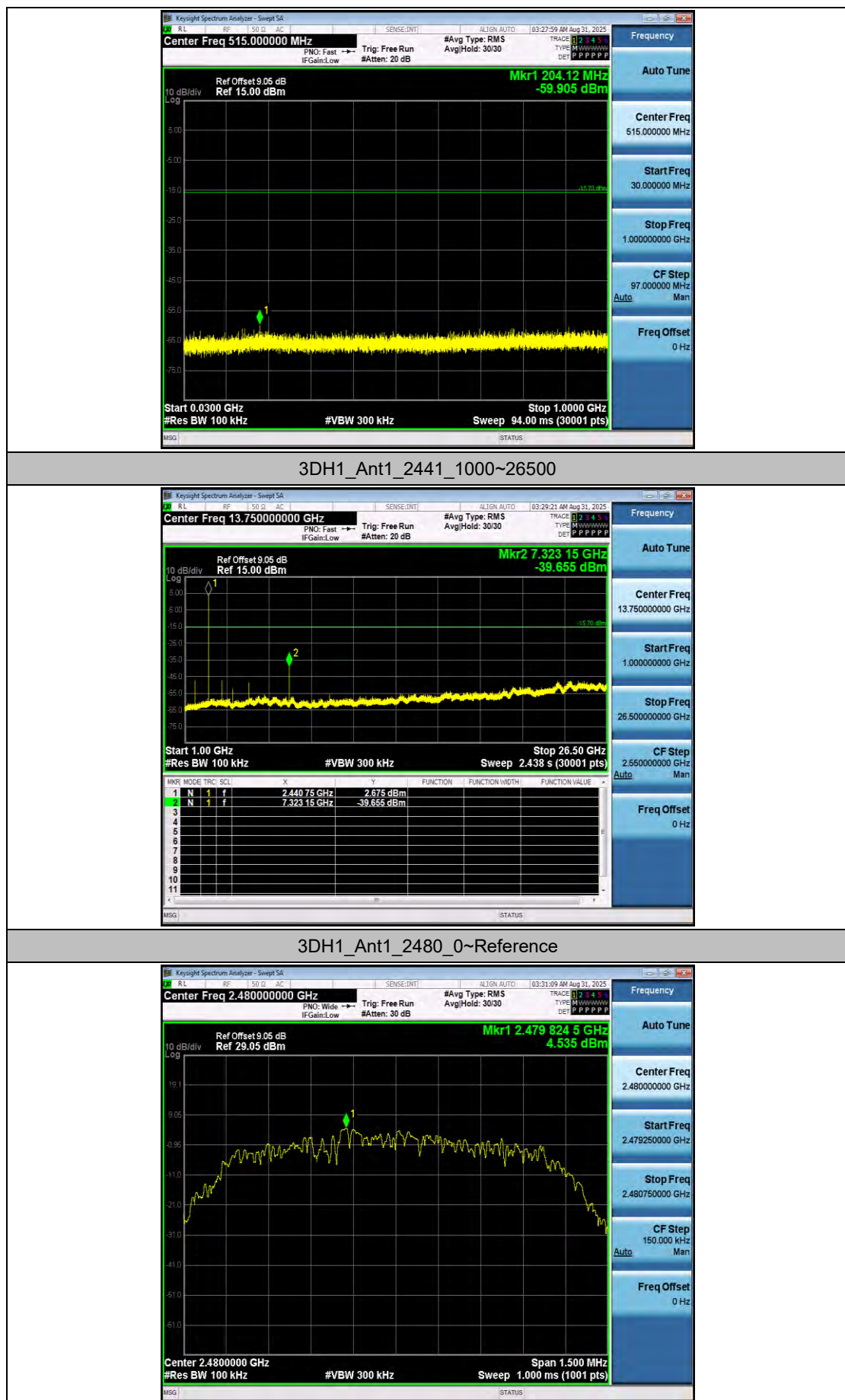
3DH1_Ant1_2402_1000~26500

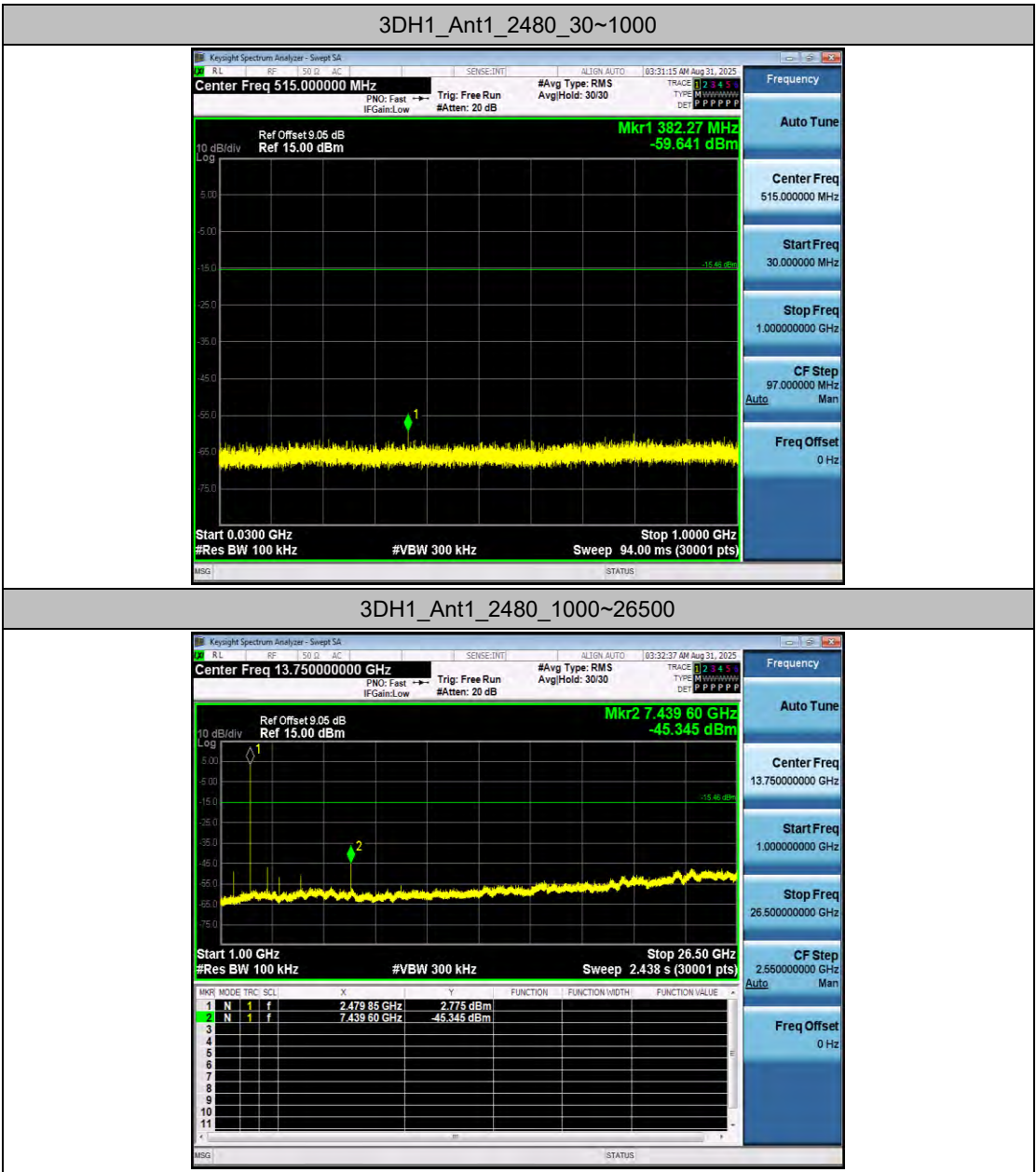


3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000





Appendix A.9: Emissions in Restricted Bands

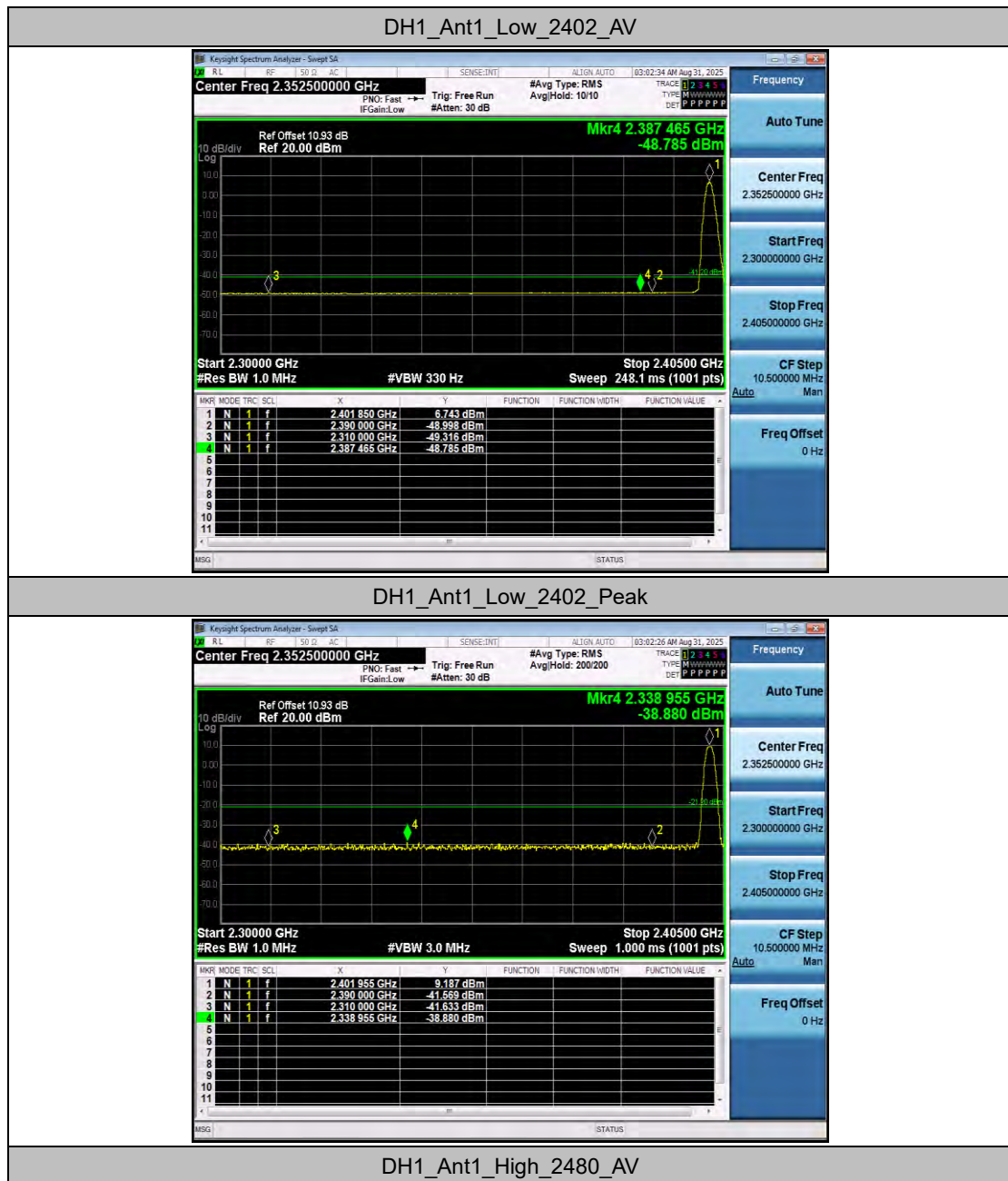
Test Result

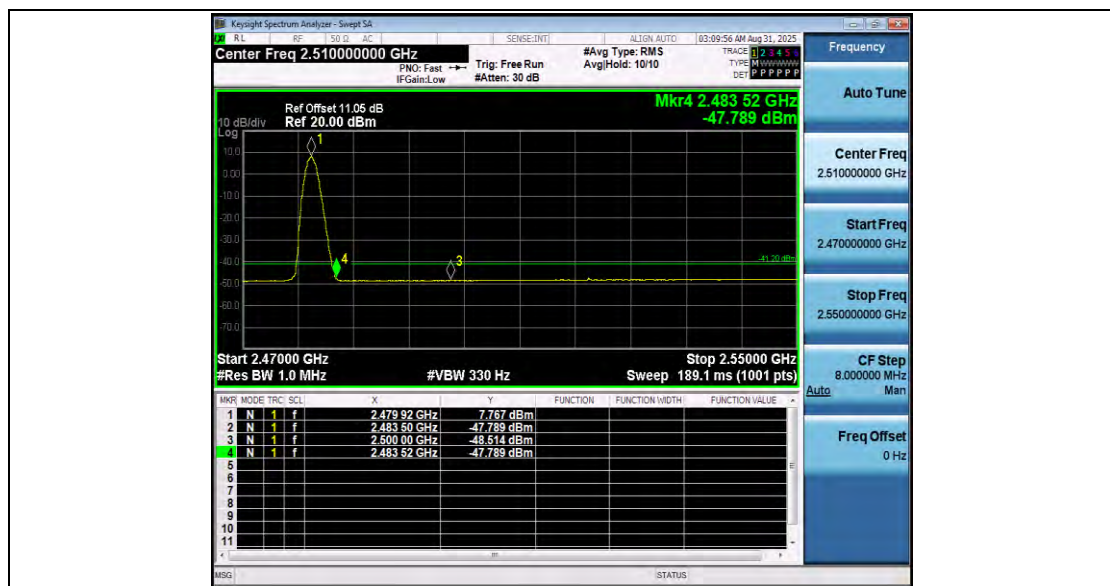
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.32	≤-41.20	45.88	≤54	PASS
				AV	2387.465	-48.78	≤-41.20	46.42	≤54	PASS
				AV	2390.000	-49	≤-41.20	46.20	≤54	PASS
				Peak	2310.000	-41.63	≤-21.20	53.57	≤74	PASS
				Peak	2338.955	-38.88	≤-21.20	56.32	≤74	PASS
				Peak	2390.000	-41.57	≤-21.20	53.63	≤74	PASS
		High	2480	AV	2483.500	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2483.520	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2500.000	-48.51	≤-41.20	46.69	≤54	PASS
				Peak	2483.500	-40.03	≤-21.20	55.17	≤74	PASS
				Peak	2485.280	-39.11	≤-21.20	56.09	≤74	PASS
				Peak	2500.000	-39.37	≤-21.20	55.83	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.3	≤-41.20	45.90	≤54	PASS
				AV	2387.465	-48.86	≤-41.20	46.34	≤54	PASS
				AV	2390.000	-49.02	≤-41.20	46.18	≤54	PASS
				Peak	2310.000	-40.81	≤-21.20	54.39	≤74	PASS
				Peak	2339.795	-37.94	≤-21.20	57.26	≤74	PASS
				Peak	2390.000	-40.1	≤-21.20	55.10	≤74	PASS
		High	2480	AV	2483.500	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2483.520	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2500.000	-48.62	≤-41.20	46.58	≤54	PASS
				Peak	2483.500	-40.65	≤-21.20	54.55	≤74	PASS
				Peak	2487.760	-38.47	≤-21.20	56.73	≤74	PASS
				Peak	2500.000	-39.1	≤-21.20	56.10	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.34	≤-41.20	45.86	≤54	PASS
				AV	2386.310	-48.88	≤-41.20	46.32	≤54	PASS
				AV	2390.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2310.000	-41.15	≤-21.20	54.05	≤74	PASS
				Peak	2347.985	-38.27	≤-21.20	56.93	≤74	PASS
				Peak	2390.000	-41.81	≤-21.20	53.39	≤74	PASS
		High	2480	AV	2483.500	-47.97	≤-41.20	47.23	≤54	PASS
				AV	2483.520	-47.97	≤-41.20	47.23	≤54	PASS
				AV	2500.000	-48.62	≤-41.20	46.58	≤54	PASS
				Peak	2483.500	-40.03	≤-21.20	55.17	≤74	PASS
				Peak	2484.160	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2500.000	-41.02	≤-21.20	54.18	≤74	PASS

Note:

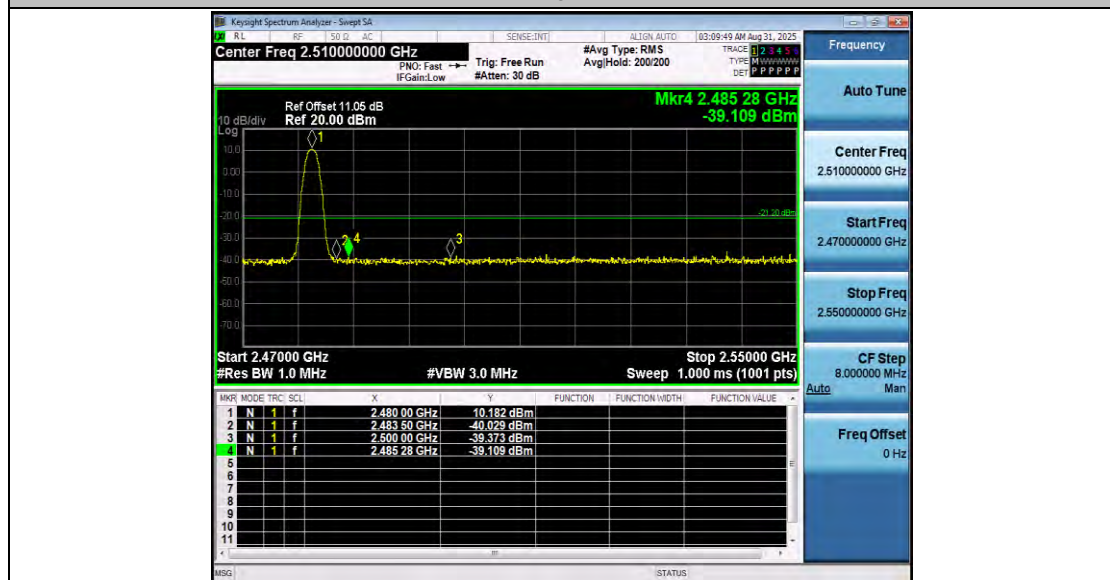
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

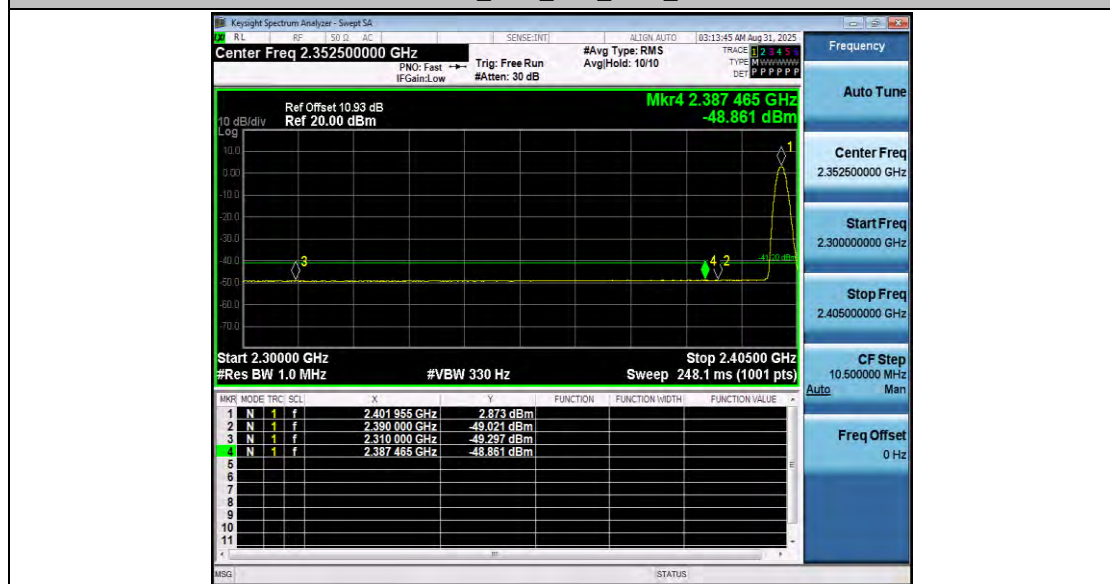




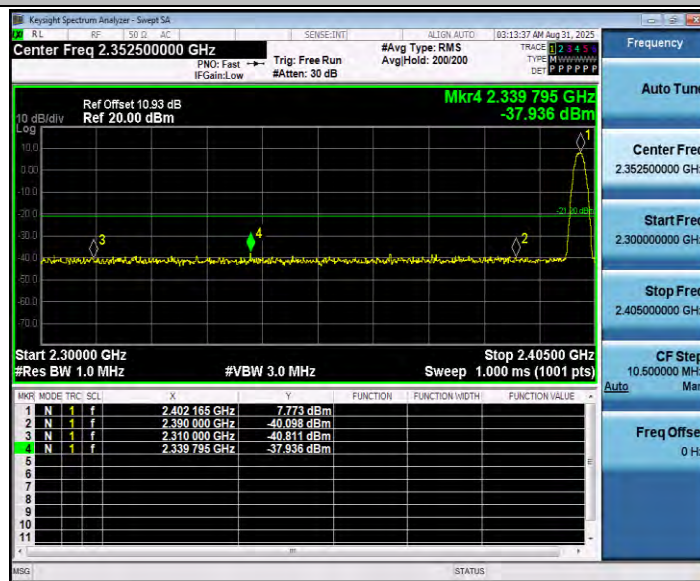
DH1_Ant1_High_2480_Peak



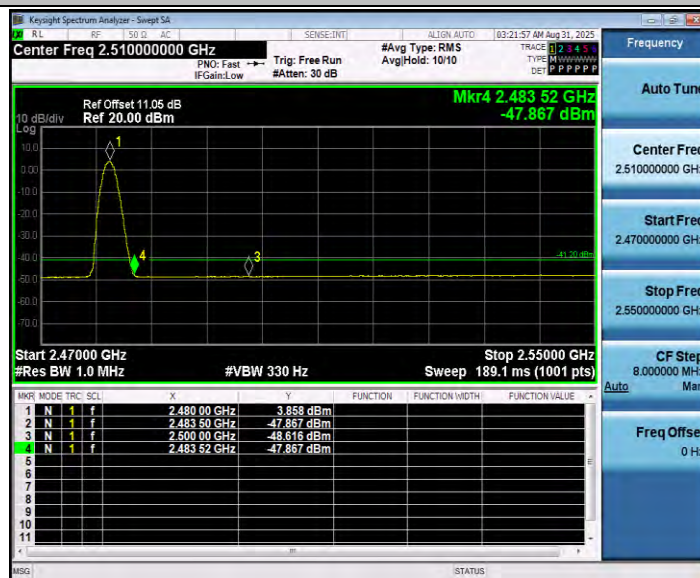
2DH1_Ant1_Low_2402_AV



2DH1_Ant1_Low_2402_Peak



2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak

