

Case No. : <u>GTS20240604012-1-01</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.1.3</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	0.948	2401.559	2402.507	---	---
		2441	0.957	2440.556	2441.513	---	---
		2480	0.939	2479.562	2480.501	---	---
2DH1	Ant1	2402	1.320	2401.346	2402.666	---	---
		2441	1.296	2440.367	2441.663	---	---
		2480	1.254	2479.379	2480.633	---	---
3DH1	Ant1	2402	1.254	2401.385	2402.639	---	---
		2441	1.254	2440.385	2441.639	---	---
		2480	1.224	2479.418	2480.642	---	---

Test Graphs

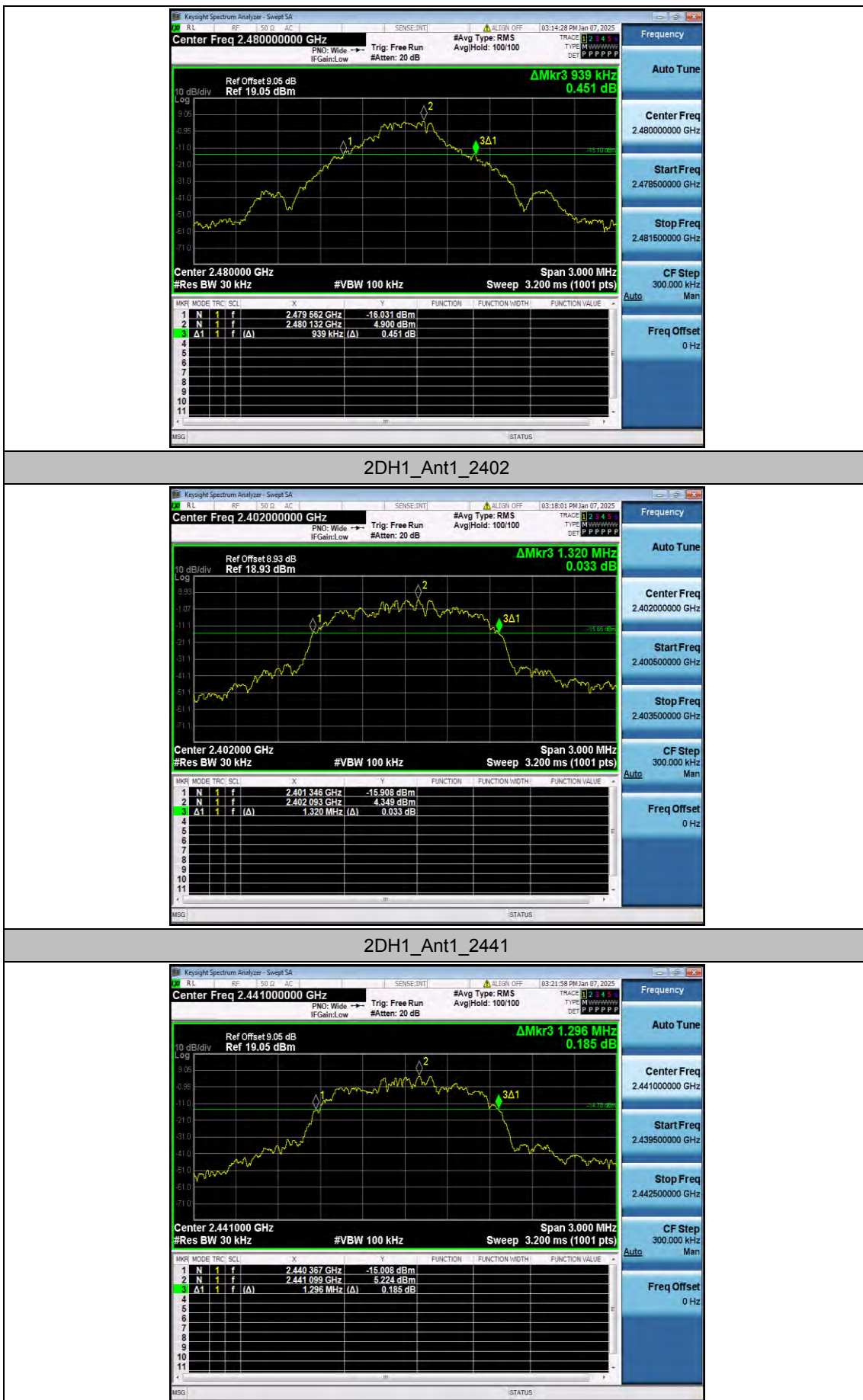
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



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	0.81314	2401.6133	2402.4265	---	---
		2441	0.83110	2440.6033	2441.4344	---	---
		2480	0.81528	2479.6098	2480.4250	---	---
2DH1	Ant1	2402	1.1488	2401.4378	2402.5866	---	---
		2441	1.1597	2440.4338	2441.5935	---	---
		2480	1.1604	2479.4302	2480.5906	---	---
3DH1	Ant1	2402	1.1517	2401.4517	2402.6034	---	---
		2441	1.1482	2440.4540	2441.6022	---	---
		2480	1.1433	2479.4533	2480.5966	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



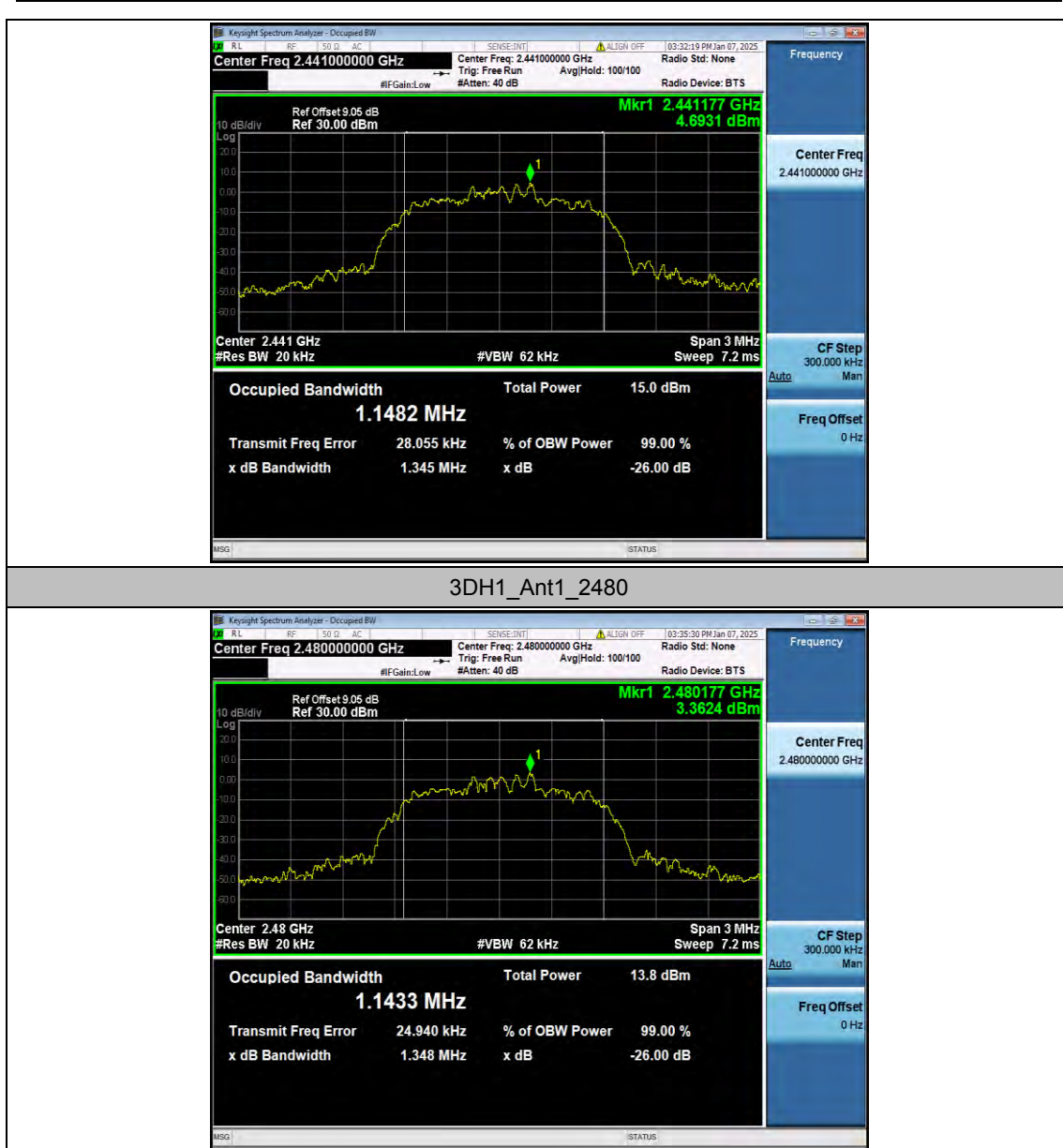
2DH1_Ant1_2480



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	8.48	≤20.97	PASS
		2441	11.07	≤20.97	PASS
		2480	7.80	≤20.97	PASS
2DH1	Ant1	2402	9.49	≤20.97	PASS
		2441	11.09	≤20.97	PASS
		2480	8.87	≤20.97	PASS
3DH1	Ant1	2402	11.13	≤20.97	PASS
		2441	10.67	≤20.97	PASS
		2480	9.41	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.986	≥ 0.638	PASS
		Hop_2441	0.994	≥ 0.638	PASS
		Hop_2480	0.84	≥ 0.638	PASS
2DH1	Ant1	Hop_2402	0.986	≥ 0.880	PASS
		Hop_2441	1.008	≥ 0.880	PASS
		Hop_2480	1.018	≥ 0.880	PASS
3DH1	Ant1	Hop_2402	1.002	≥ 0.836	PASS
		Hop_2441	1.166	≥ 0.836	PASS
		Hop_2480	0.994	≥ 0.836	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



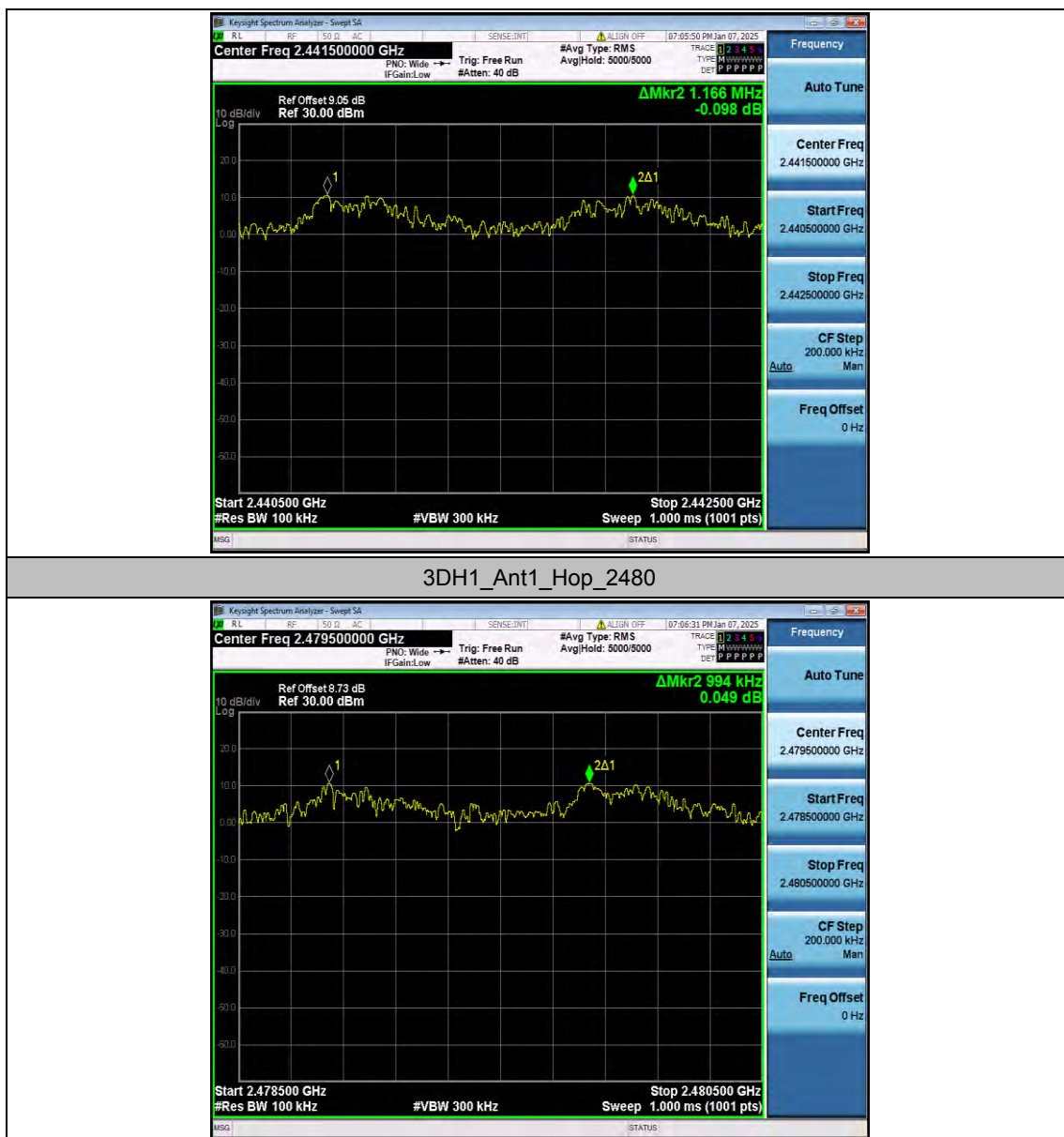
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

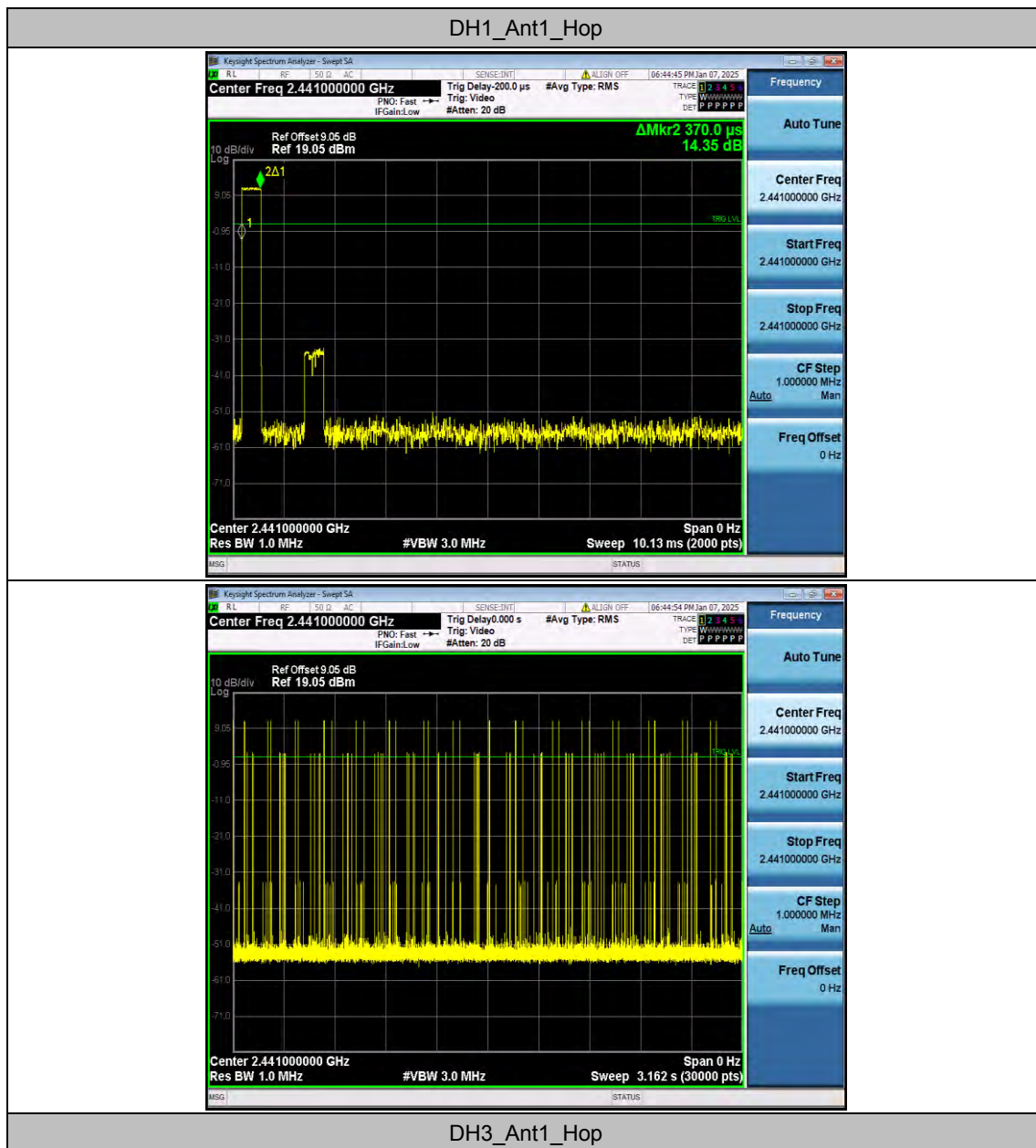


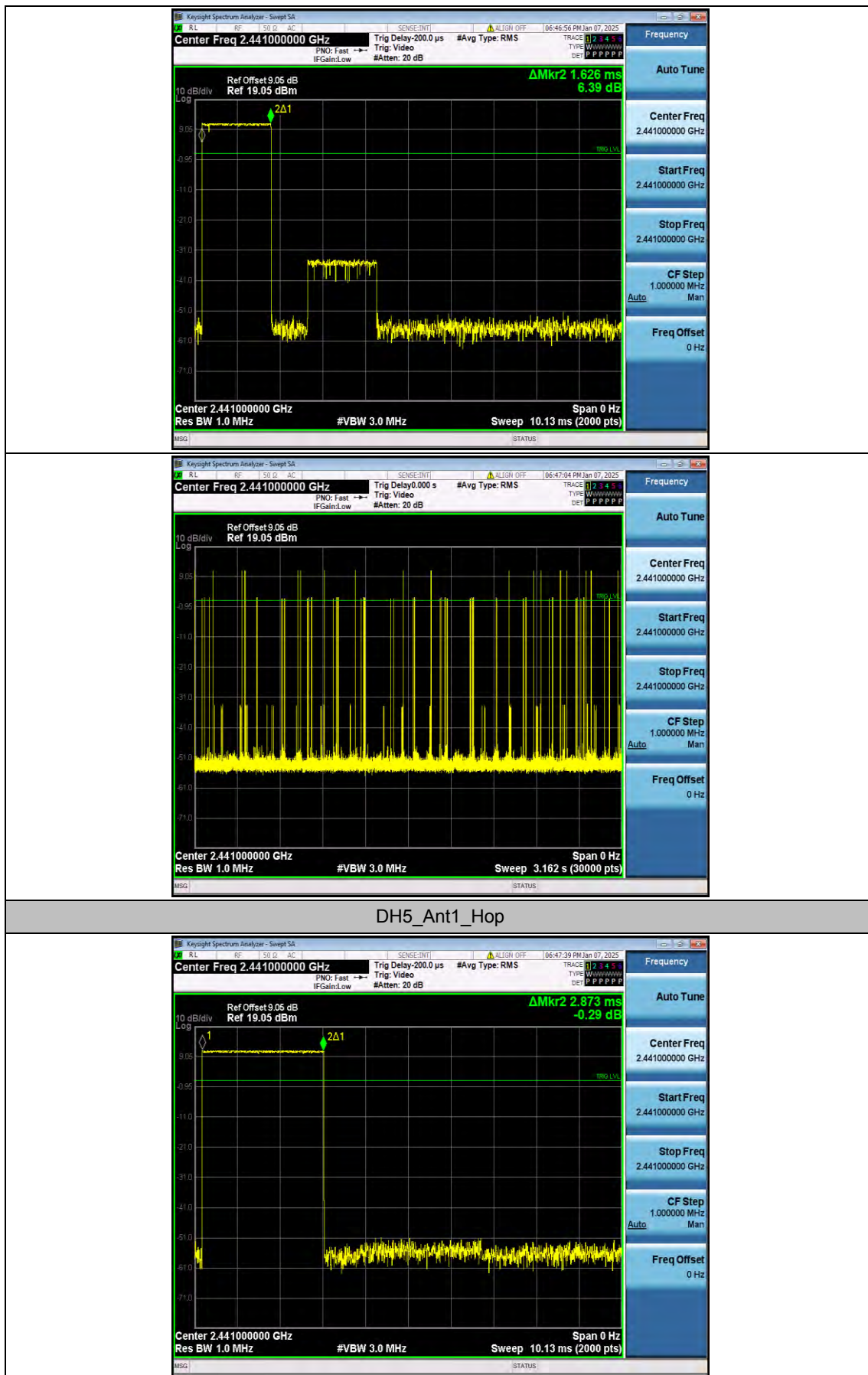
Appendix A.5: Time of occupancy

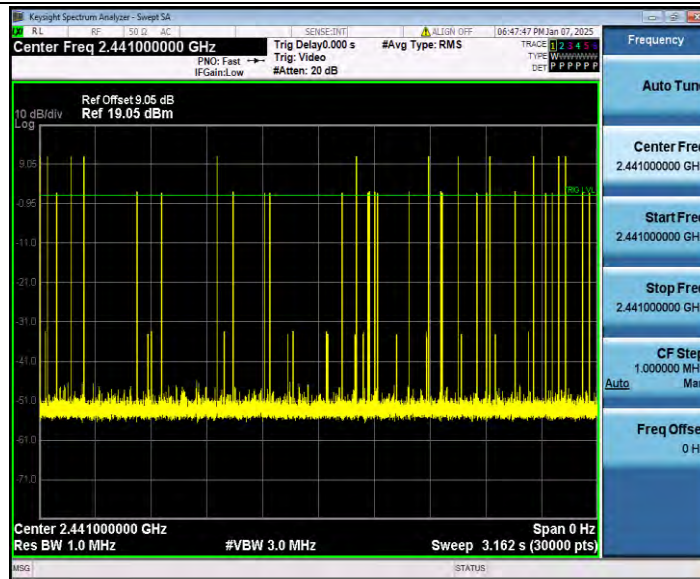
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	320	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.626	180	0.293	≤0.4	PASS
DH5	Ant1	Hop	2.873	120	0.345	≤0.4	PASS
2DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.626	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.873	120	0.345	≤0.4	PASS
3DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.626	180	0.293	≤0.4	PASS
3DH5	Ant1	Hop	2.878	120	0.345	≤0.4	PASS

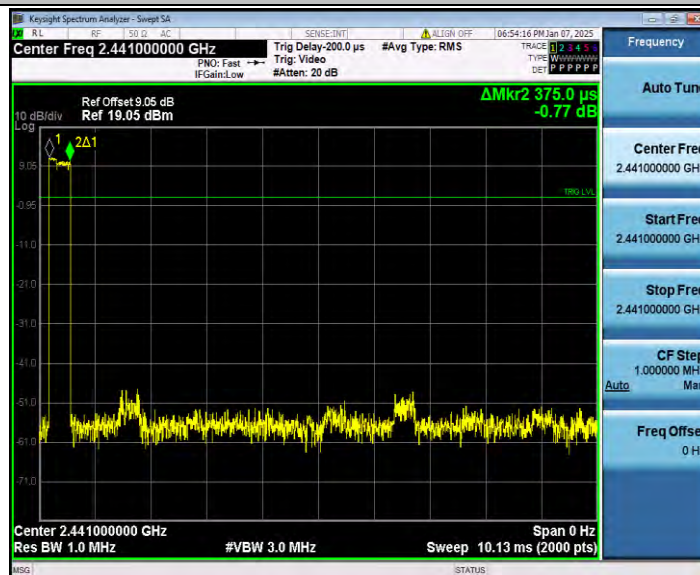
Test Graphs



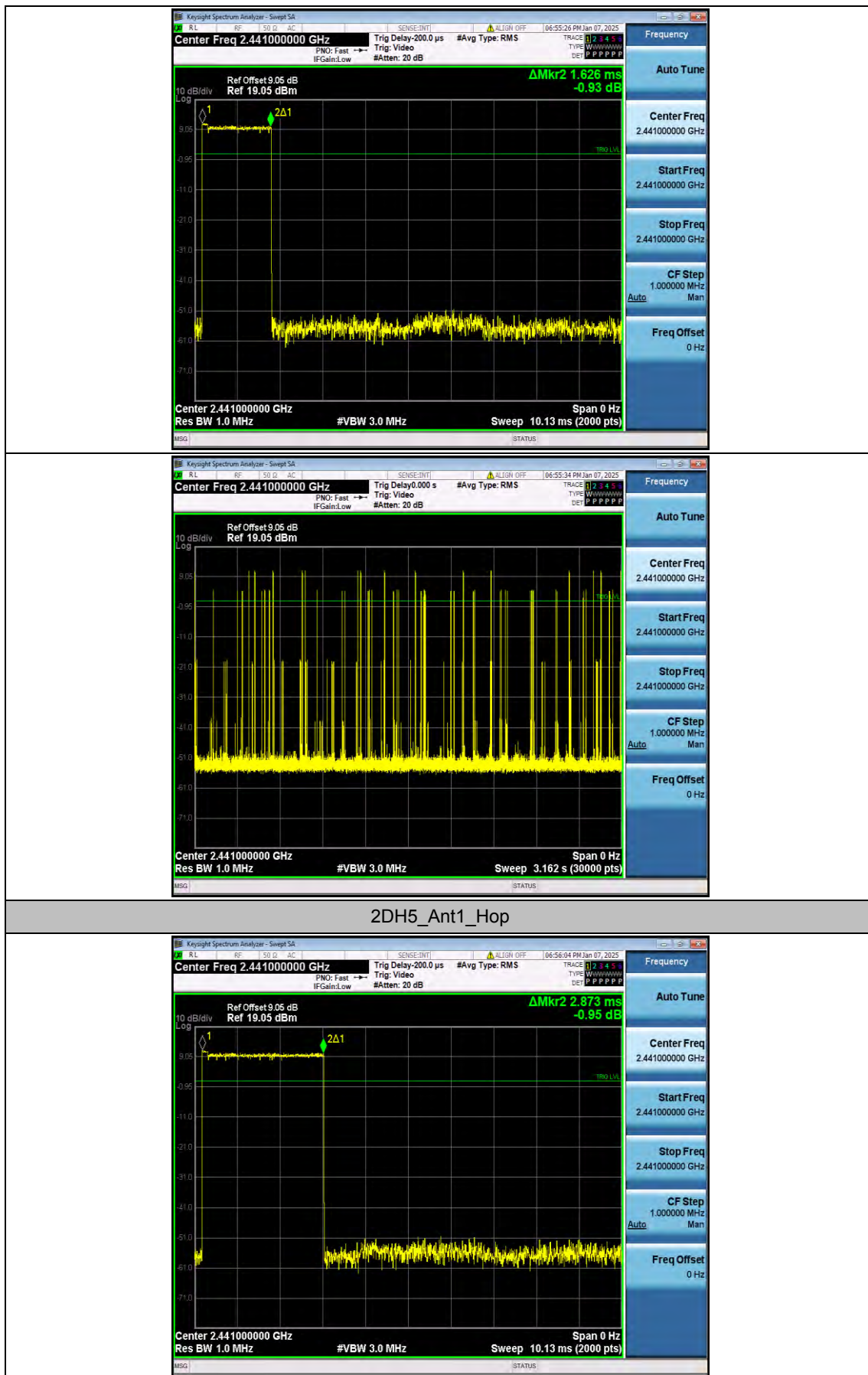


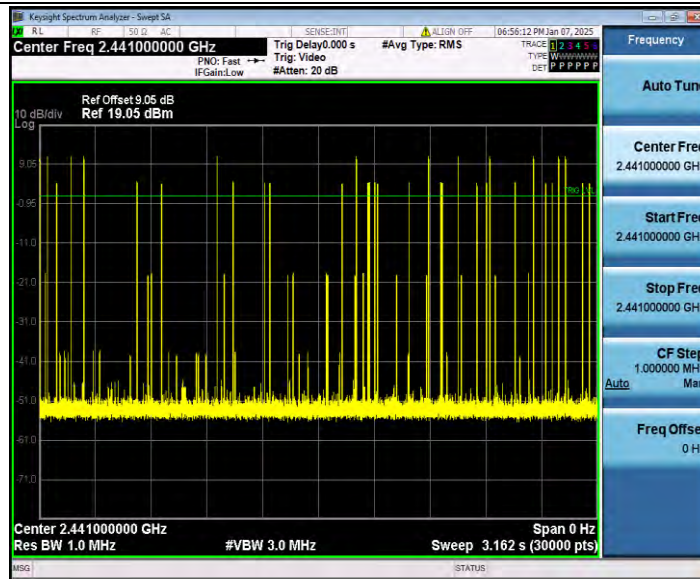


2DH1_Ant1_Hop

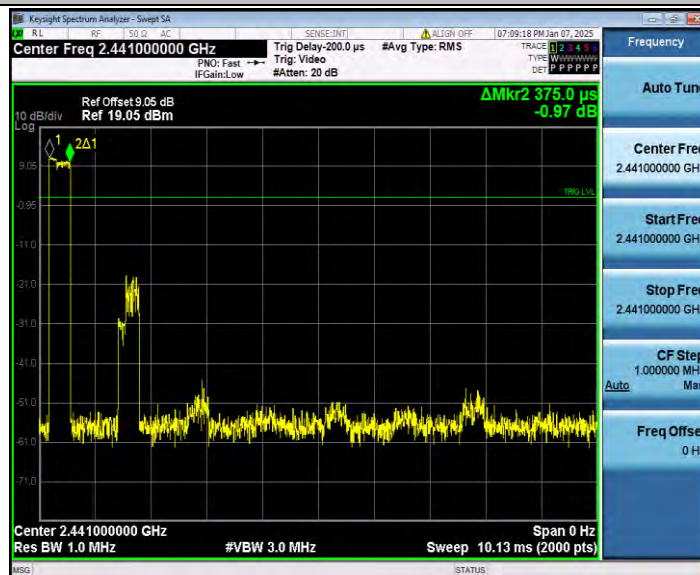


2DH3_Ant1_Hop

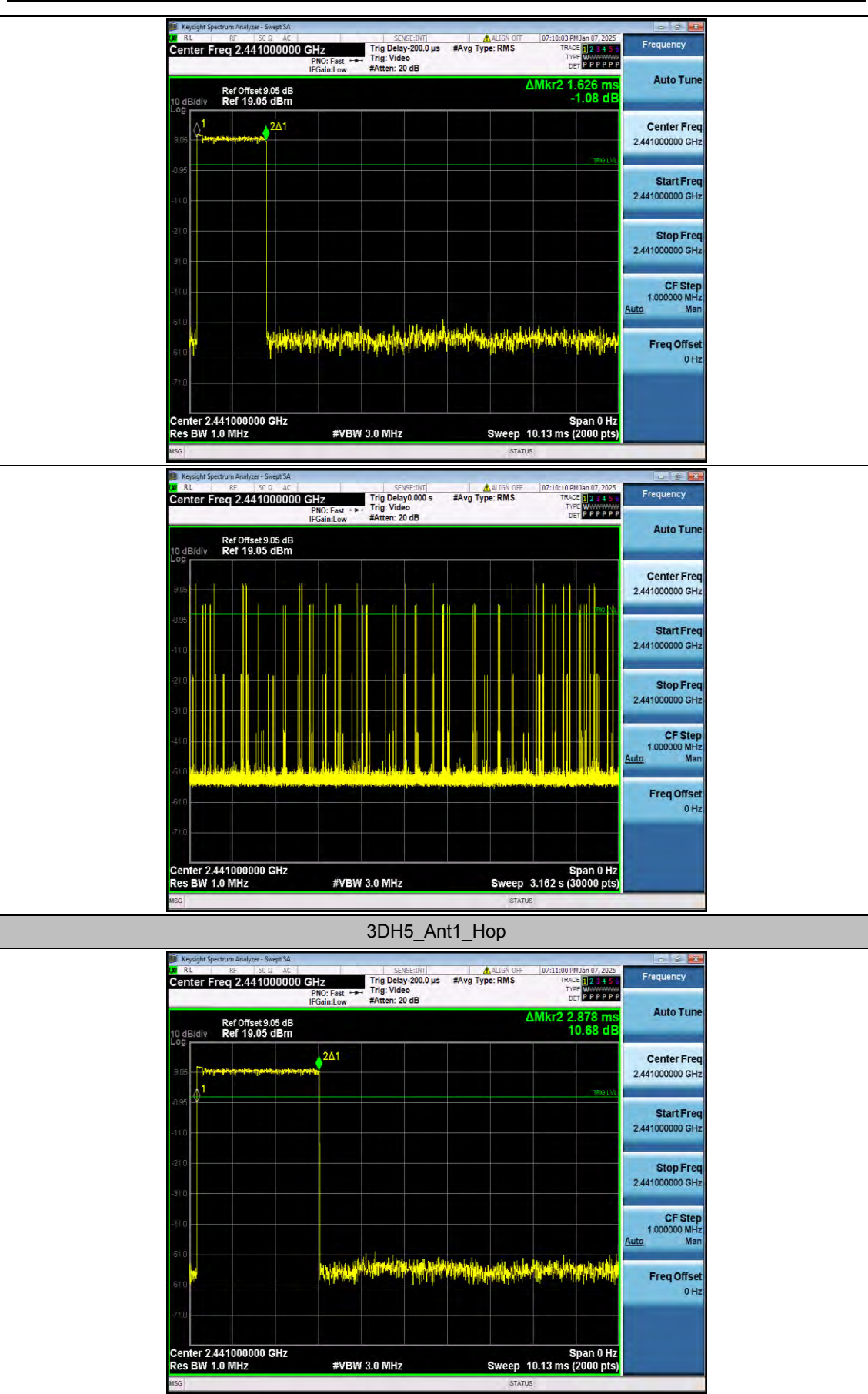


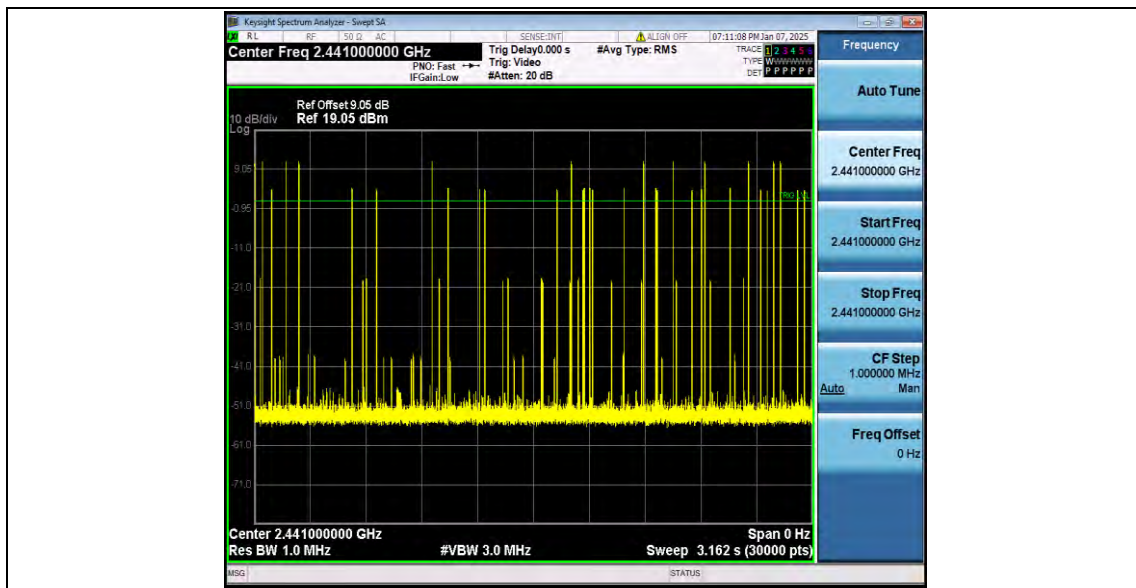


3DH1_Ant1_Hop



3DH3_Ant1_Hop



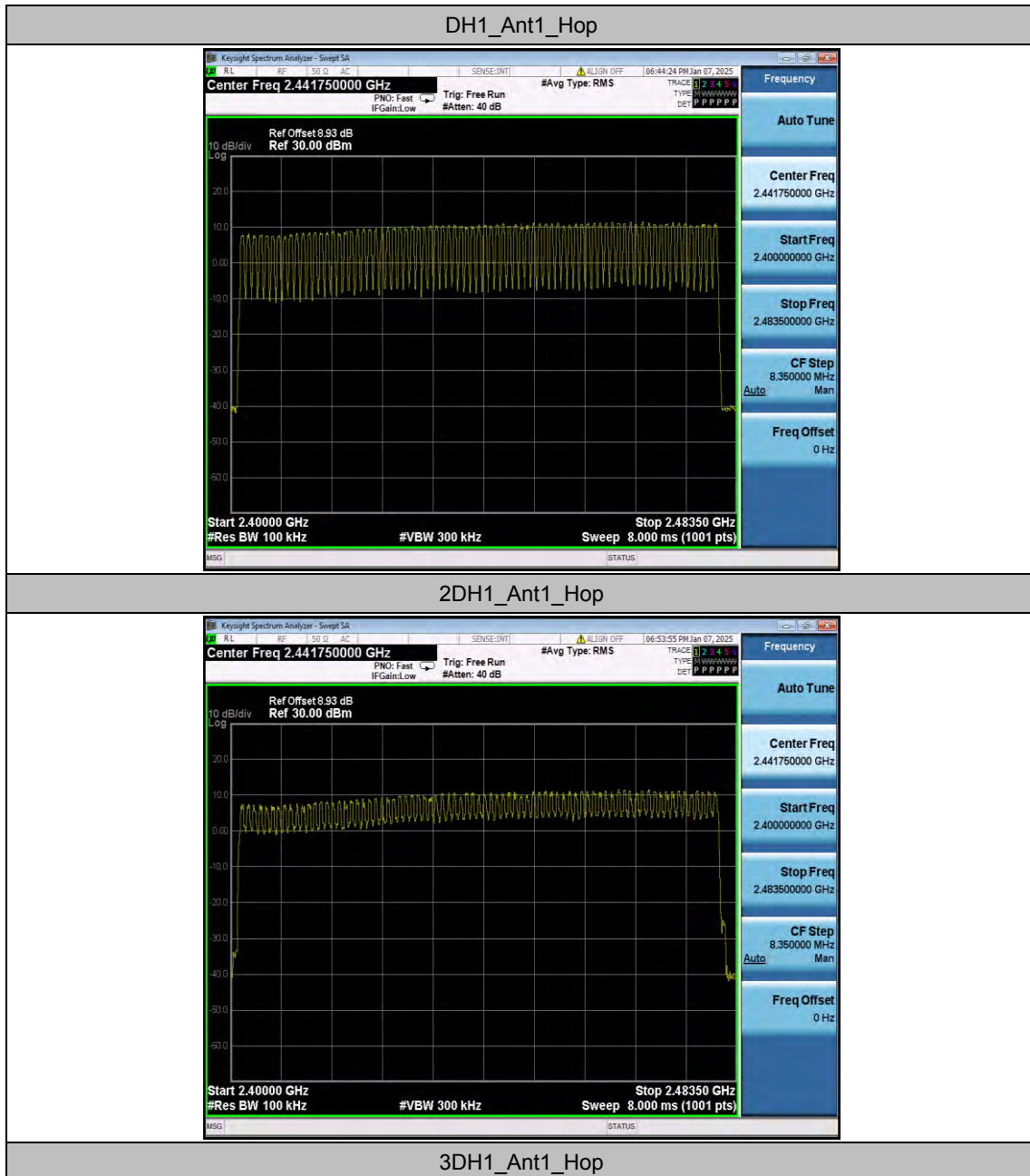


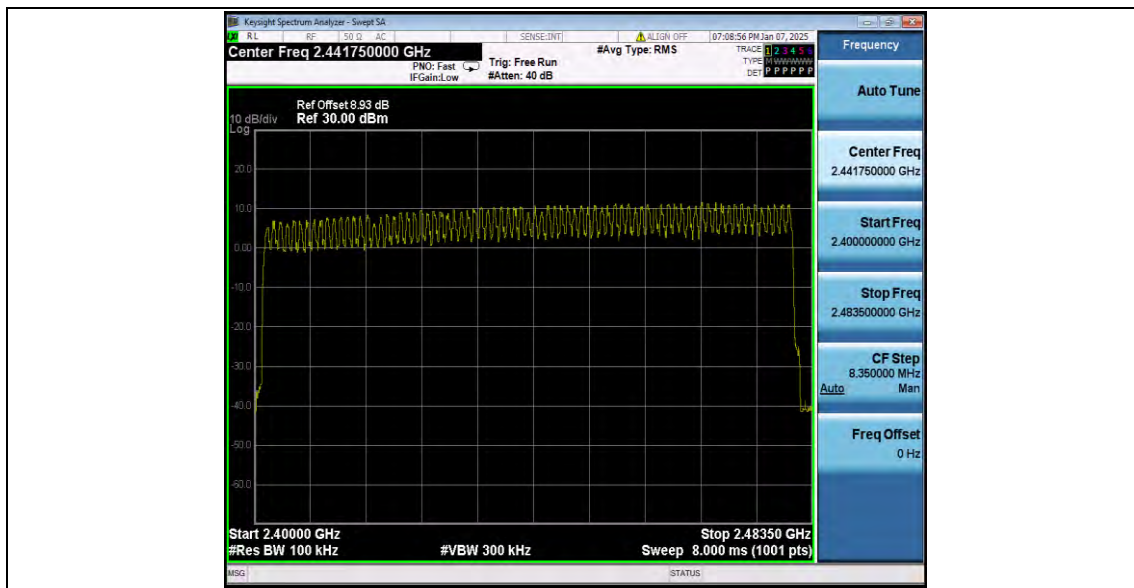
Appendix A.6: Number of hopping channels

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





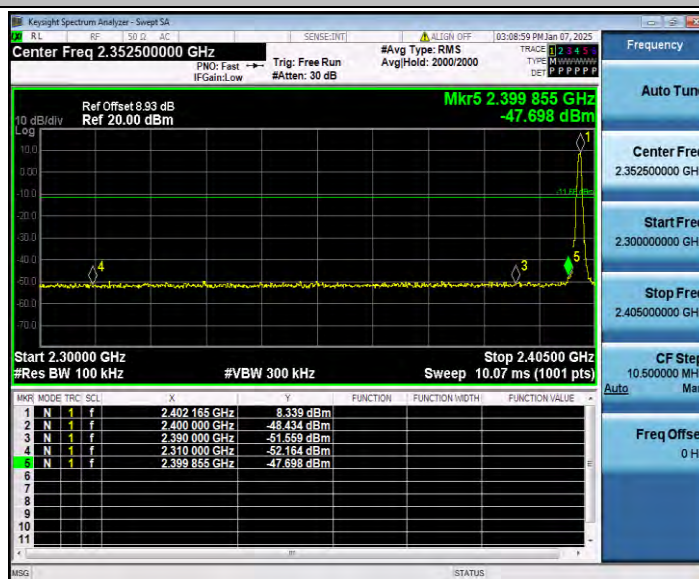
Appendix A.7: Band edge measurements

Test Result

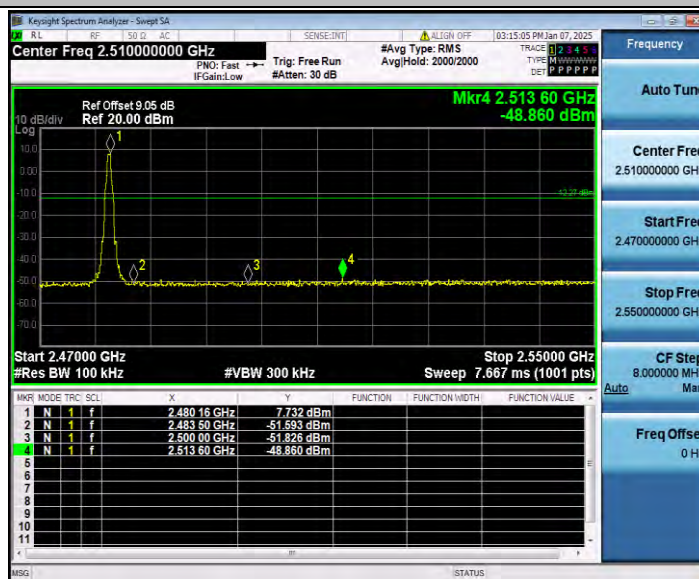
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.34	-47.7	≤ -11.66	PASS
		High	2480	7.73	-48.86	≤ -12.27	PASS
		Low	Hop_2402	7.30	-35.42	≤ -12.71	PASS
		High	Hop_2480	10.87	-47.69	≤ -9.13	PASS
2DH1	Ant1	Low	2402	8.10	-49.16	≤ -11.9	PASS
		High	2480	7.52	-48.04	≤ -12.48	PASS
		Low	Hop_2402	7.17	-48.77	≤ -12.83	PASS
		High	Hop_2480	10.80	-48.15	≤ -9.2	PASS
3DH1	Ant1	Low	2402	8.19	-48.45	≤ -11.81	PASS
		High	2480	7.61	-48.88	≤ -12.39	PASS
		Low	Hop_2402	6.63	-48.96	≤ -13.37	PASS
		High	Hop_2480	10.81	-48.79	≤ -9.19	PASS

Test Graphs

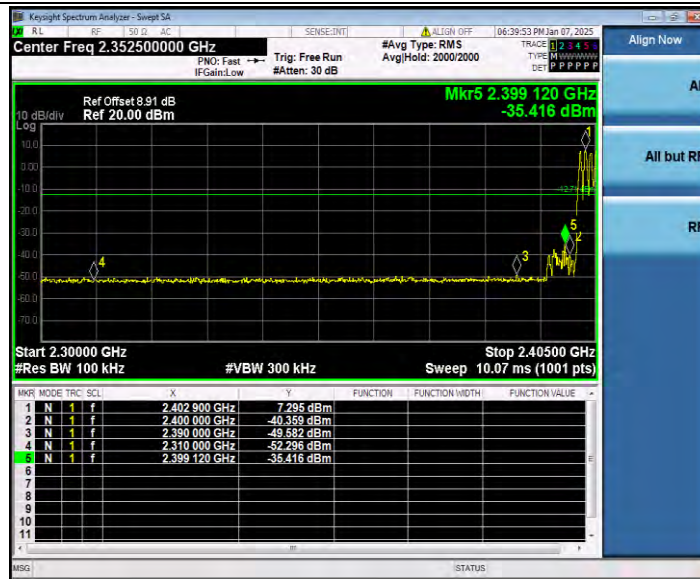
DH1_Ant1_Low_2402



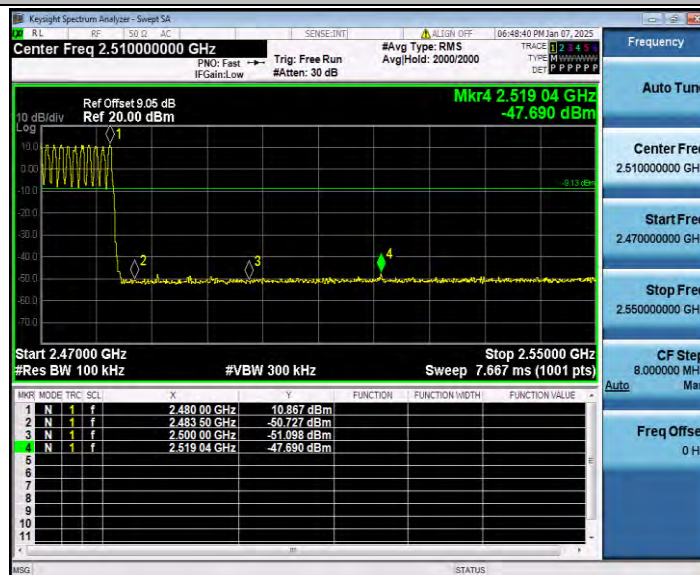
DH1_Ant1_High_2480



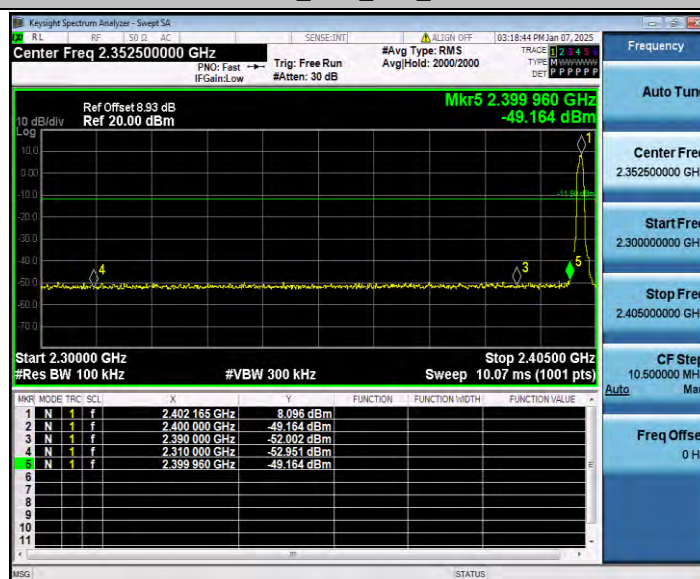
DH1_Ant1_Low_Hop_2402



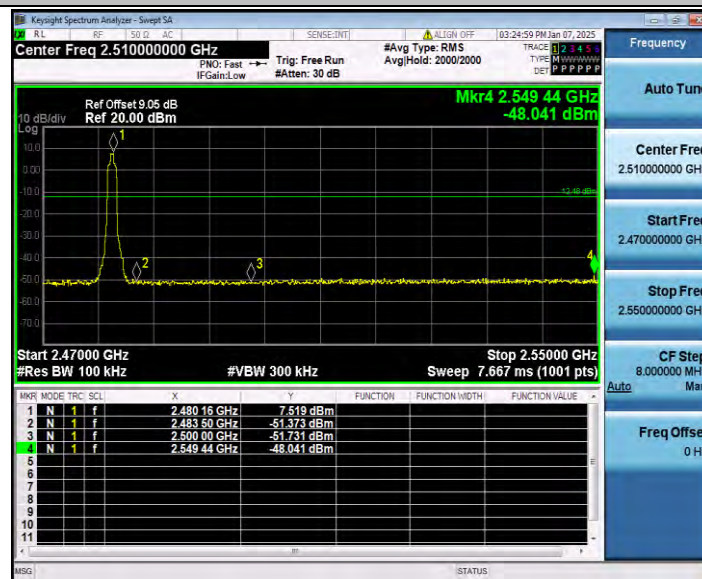
DH1_Ant1_High_Hop_2480



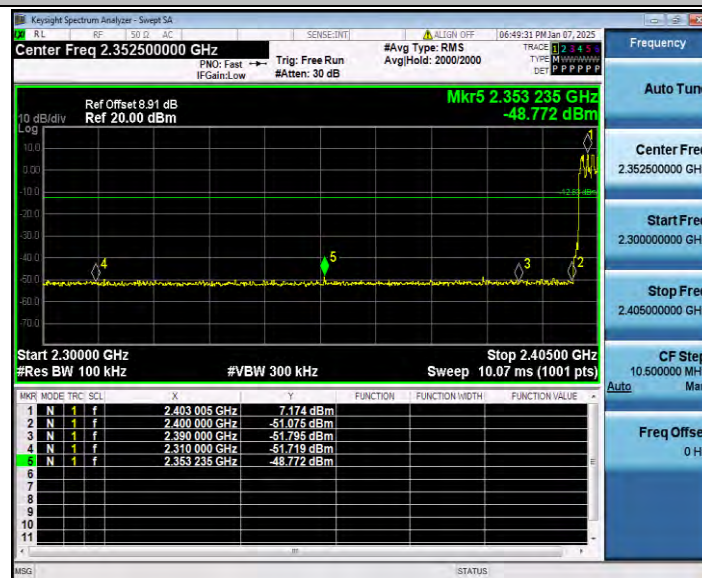
2DH1_Ant1_Low_2402



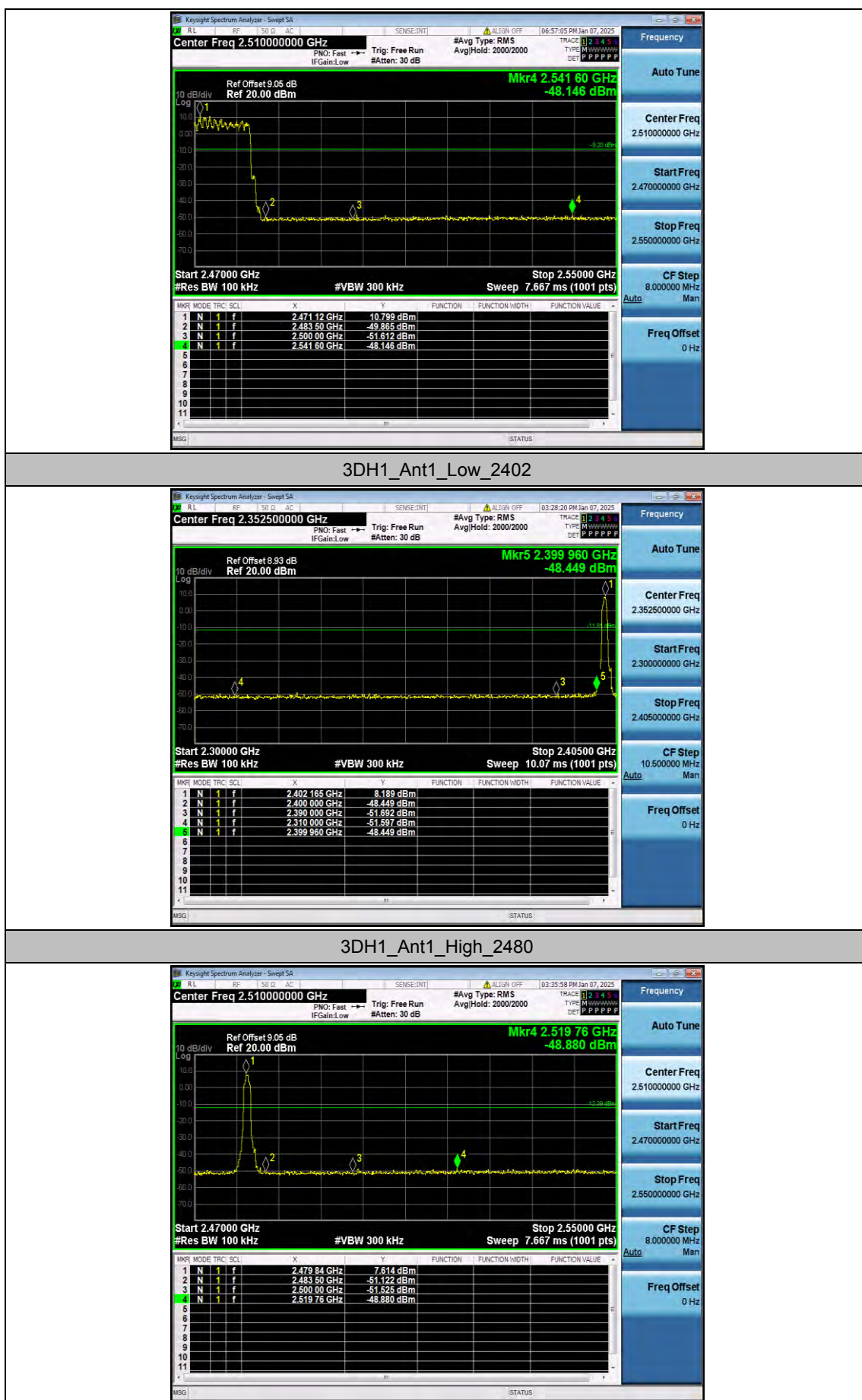
2DH1_Ant1_High_2480



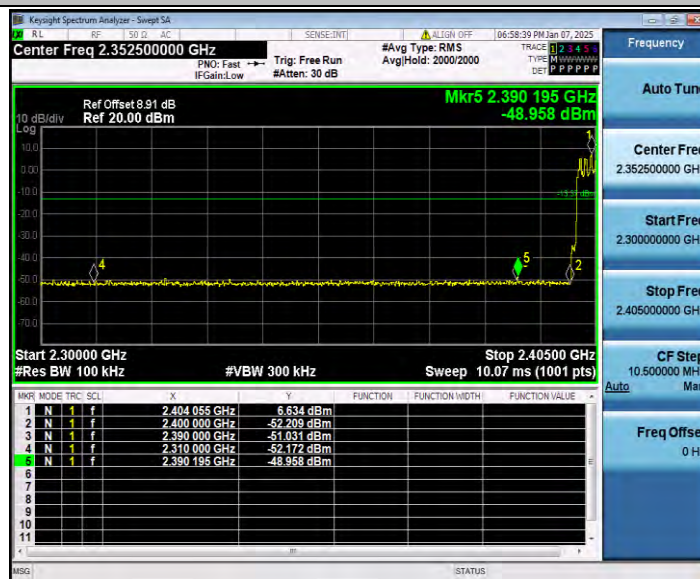
2DH1_Ant1_Low_Hop_2402



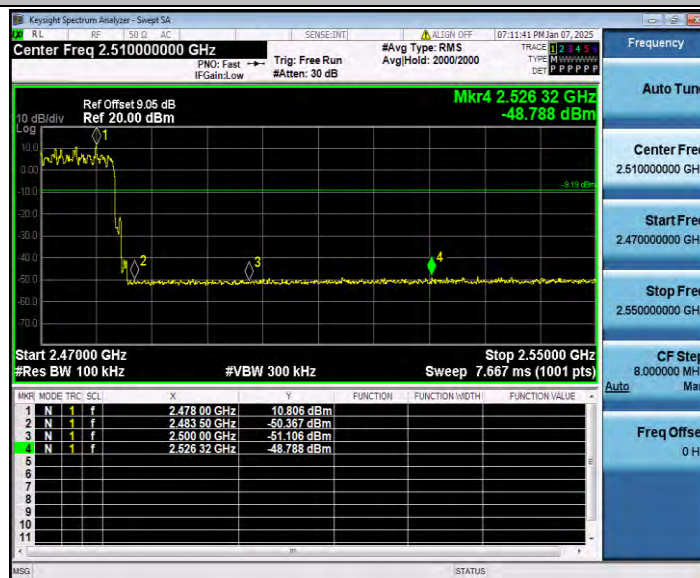
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

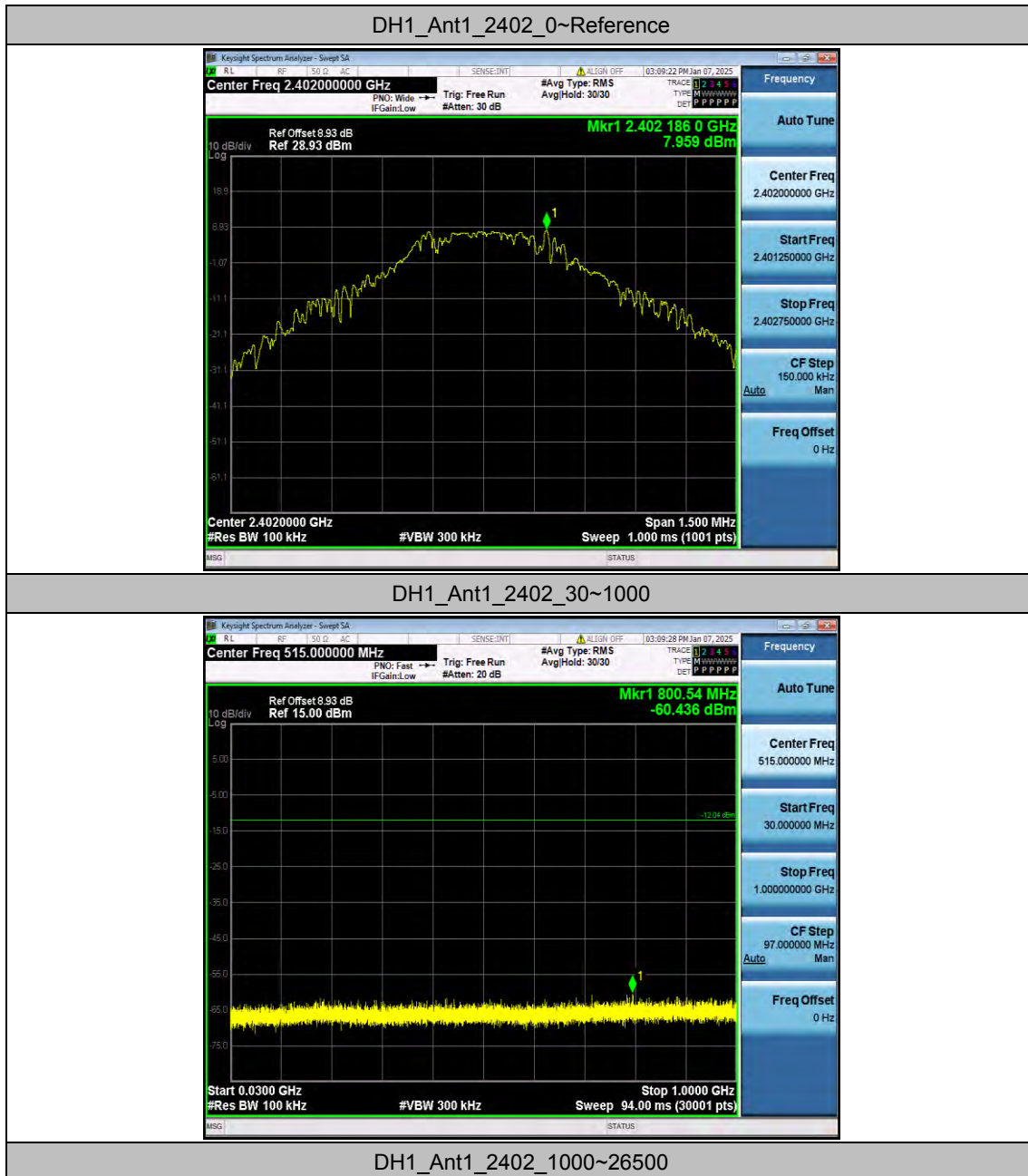


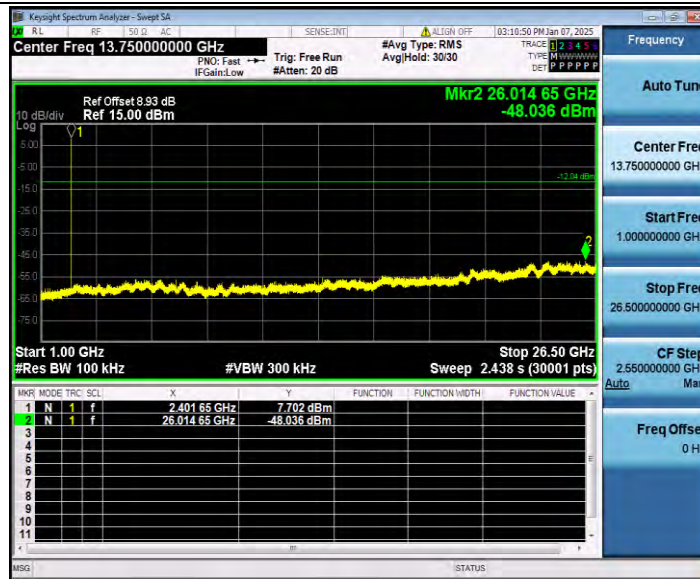
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.96	7.96	---	PASS
			30~1000	7.96	-60.44	≤-12.04	PASS
			1000~26500	7.96	-48.04	≤-12.04	PASS
		2441	Reference	8.66	8.66	---	PASS
			30~1000	8.66	-57.09	≤-11.34	PASS
			1000~26500	8.66	-47.88	≤-11.34	PASS
		2480	Reference	7.17	7.17	---	PASS
			30~1000	7.17	-59.51	≤-12.83	PASS
			1000~26500	7.17	-47.38	≤-12.83	PASS
2DH1	Ant1	2402	Reference	7.87	7.87	---	PASS
			30~1000	7.87	-60.46	≤-12.13	PASS
			1000~26500	7.87	-48.37	≤-12.13	PASS
		2441	Reference	8.51	8.51	---	PASS
			30~1000	8.51	-59.98	≤-11.49	PASS
			1000~26500	8.51	-47.19	≤-11.49	PASS
		2480	Reference	7.13	7.13	---	PASS
			30~1000	7.13	-58.56	≤-12.87	PASS
			1000~26500	7.13	-47.05	≤-12.87	PASS
3DH1	Ant1	2402	Reference	7.28	7.28	---	PASS
			30~1000	7.28	-58.62	≤-12.72	PASS
			1000~26500	7.28	-47.74	≤-12.72	PASS
		2441	Reference	7.97	7.97	---	PASS
			30~1000	7.97	-59.16	≤-12.03	PASS
			1000~26500	7.97	-47.24	≤-12.03	PASS
		2480	Reference	7.06	7.06	---	PASS
			30~1000	7.06	-60.33	≤-12.94	PASS
			1000~26500	7.06	-47.72	≤-12.94	PASS

Test Graphs

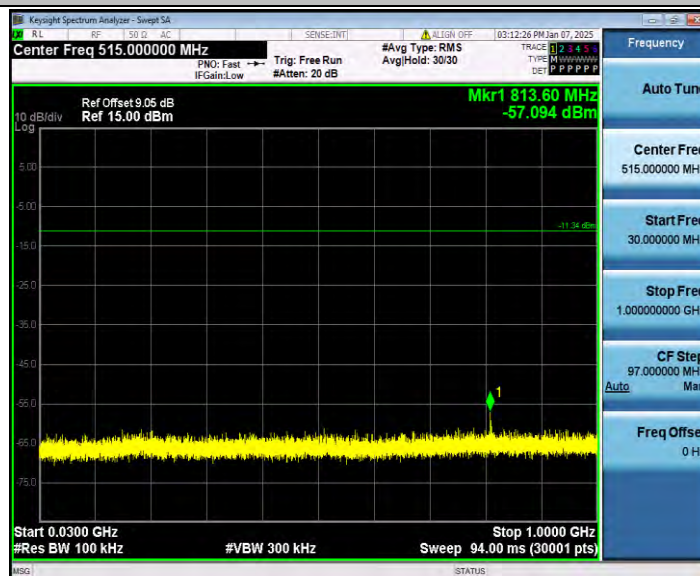




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



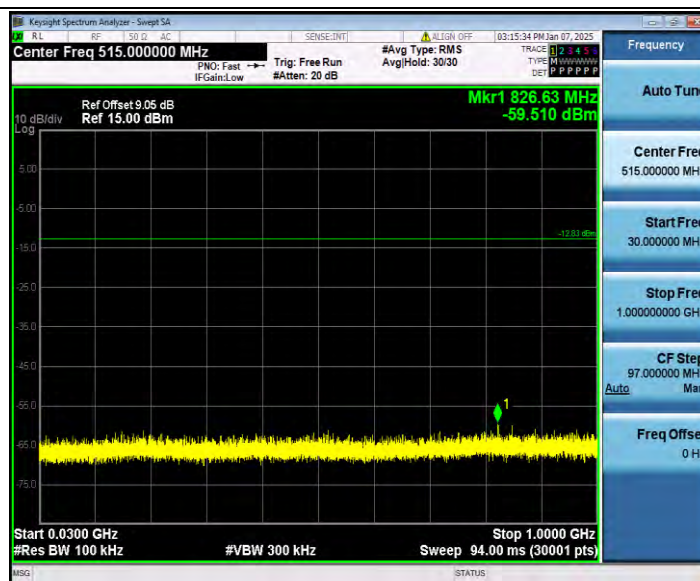
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



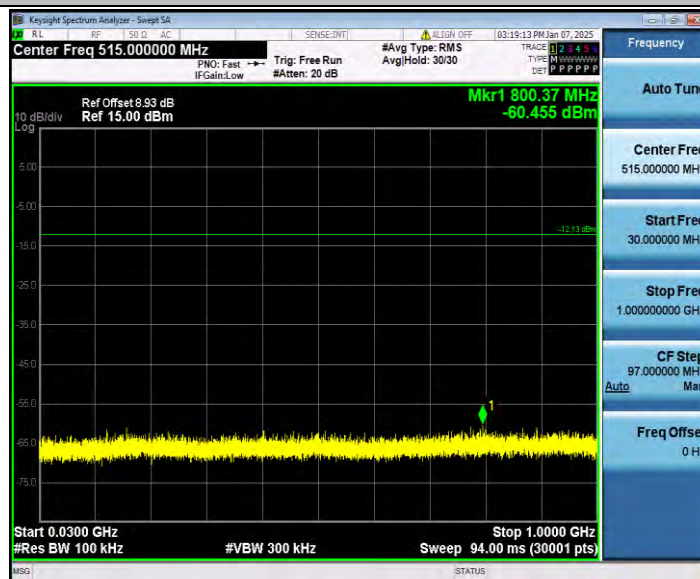
DH1_Ant1_2480_1000~26500



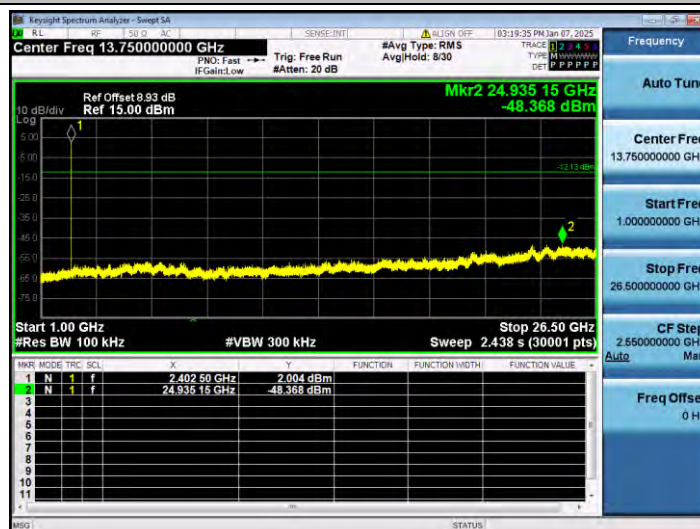
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000

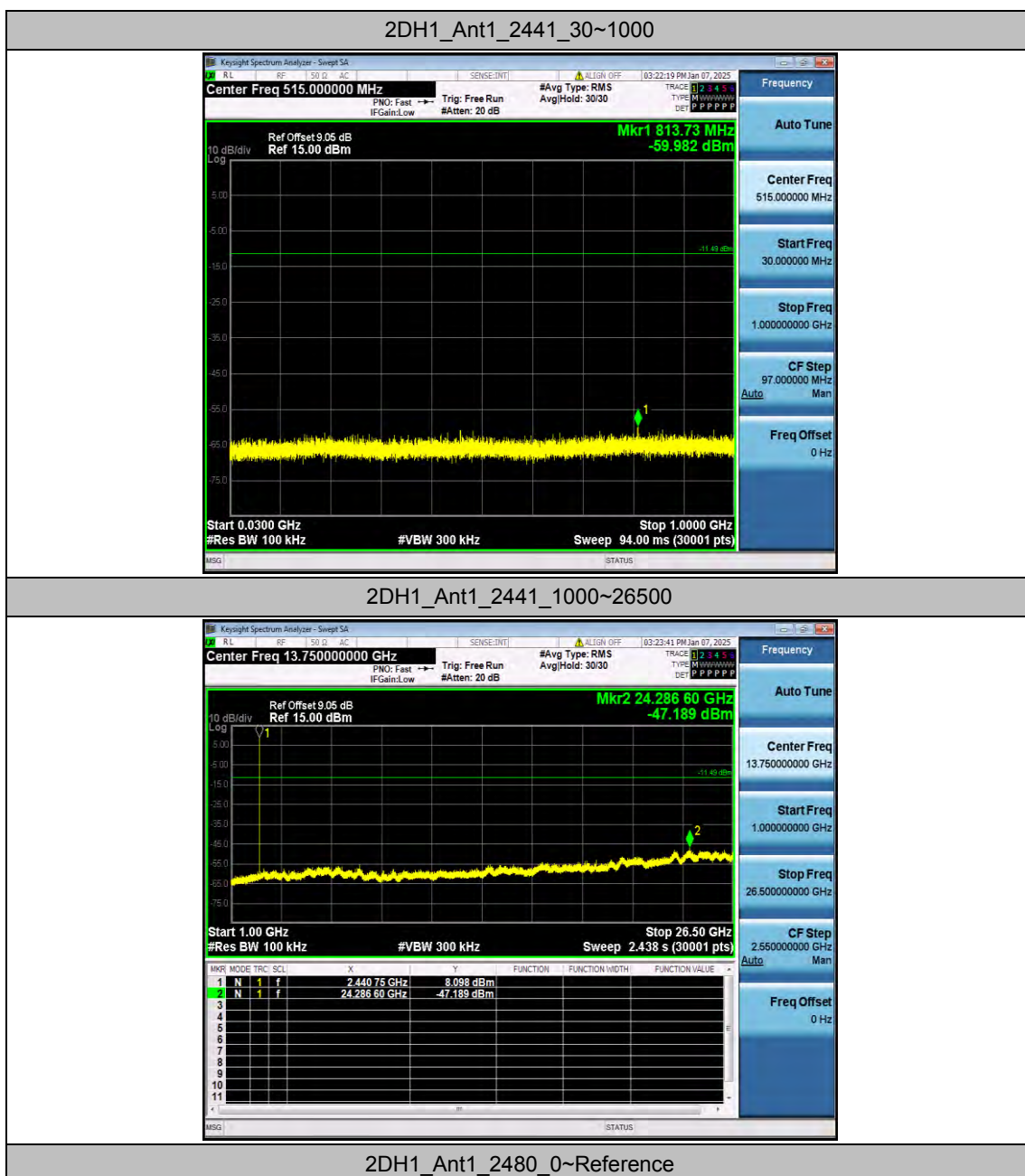


2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference

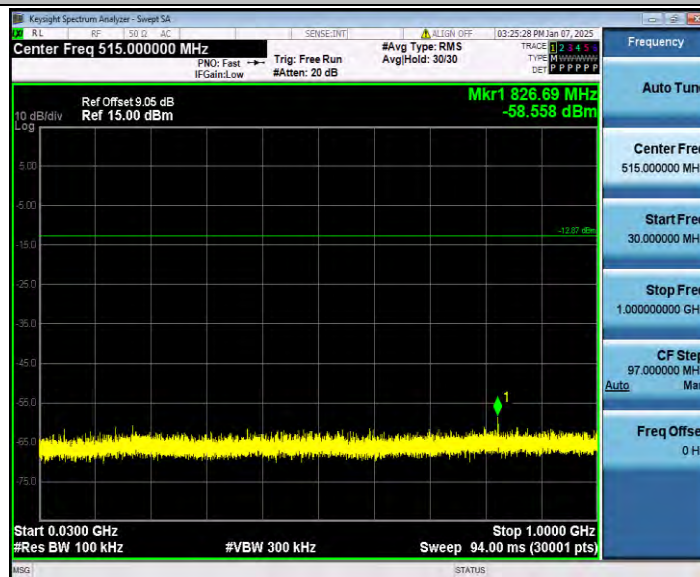




2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



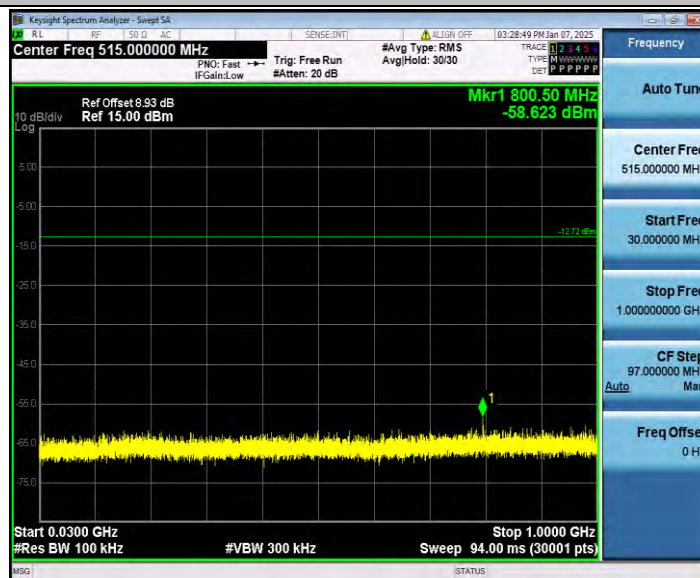
2DH1_Ant1_2480_1000~26500



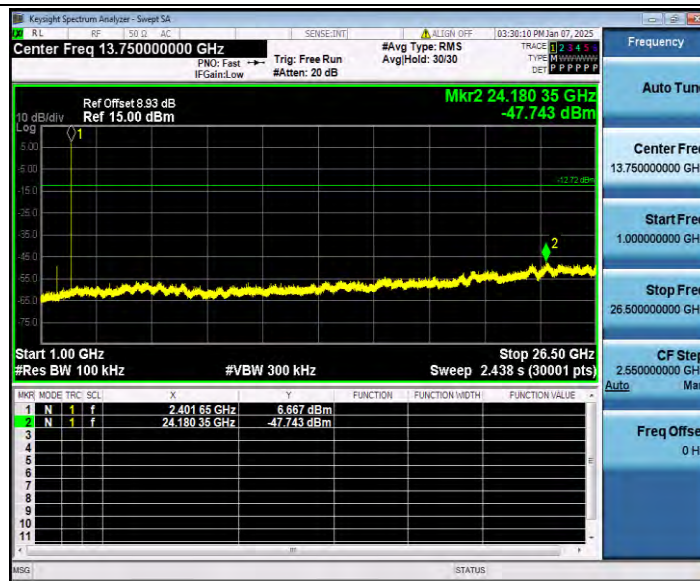
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



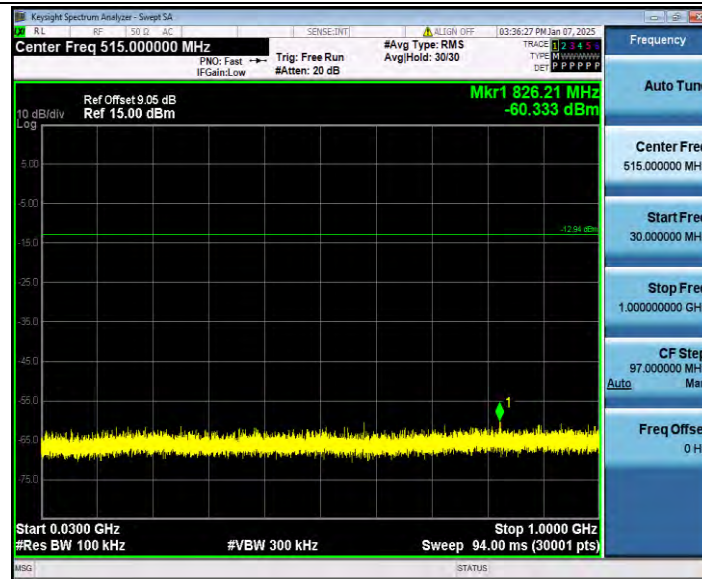
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

