

Case No. : <u>GTS20250603007-1-01</u>	
Ambient Condition: <u>22</u> °C, <u>51</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.6.11</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	0.789	2401.610	2402.399	---	---
		2441	0.774	2440.601	2441.375	---	---
		2480	0.849	2479.559	2480.408	---	---
2DH1	Ant1	2402	1.248	2401.367	2402.615	---	---
		2441	1.242	2440.382	2441.624	---	---
		2480	1.263	2479.367	2480.630	---	---
3DH1	Ant1	2402	1.248	2401.379	2402.627	---	---
		2441	1.230	2440.394	2441.624	---	---
		2480	1.233	2479.391	2480.624	---	---

Test Graphs

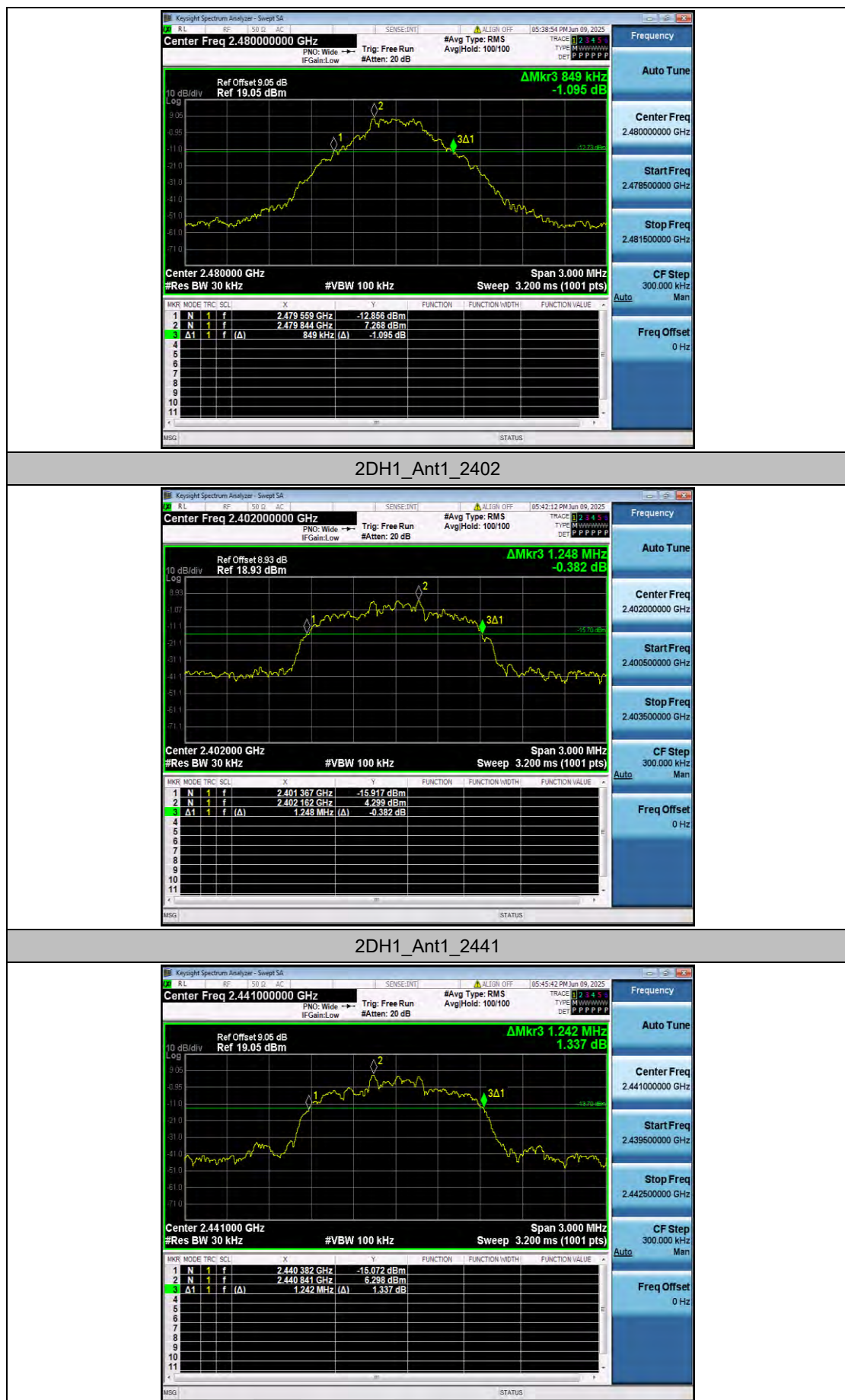
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2480



3DH1_Ant1_2402



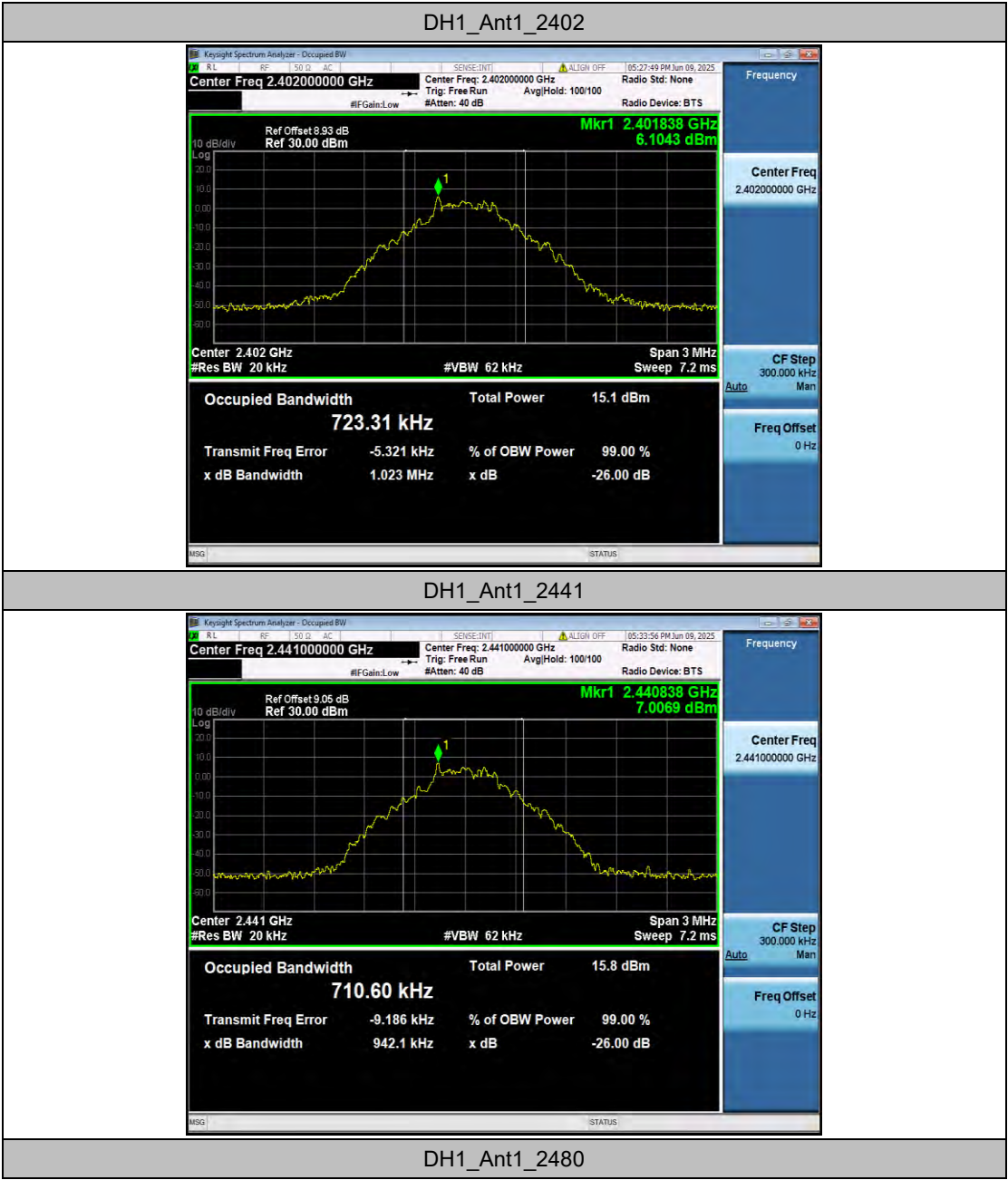
3DH1_Ant1_2441

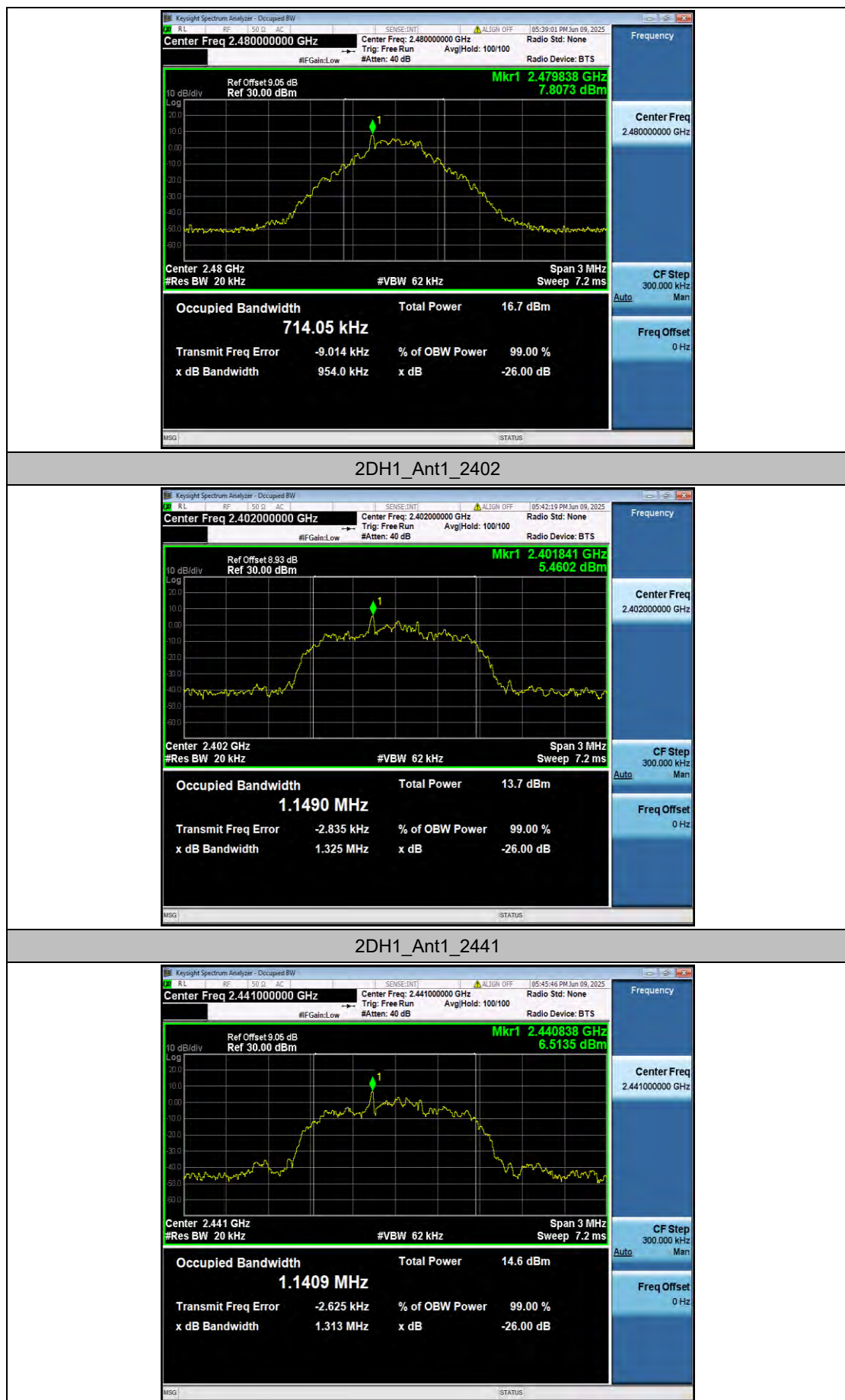
Appendix A.2: Occupied Channel Bandwidth

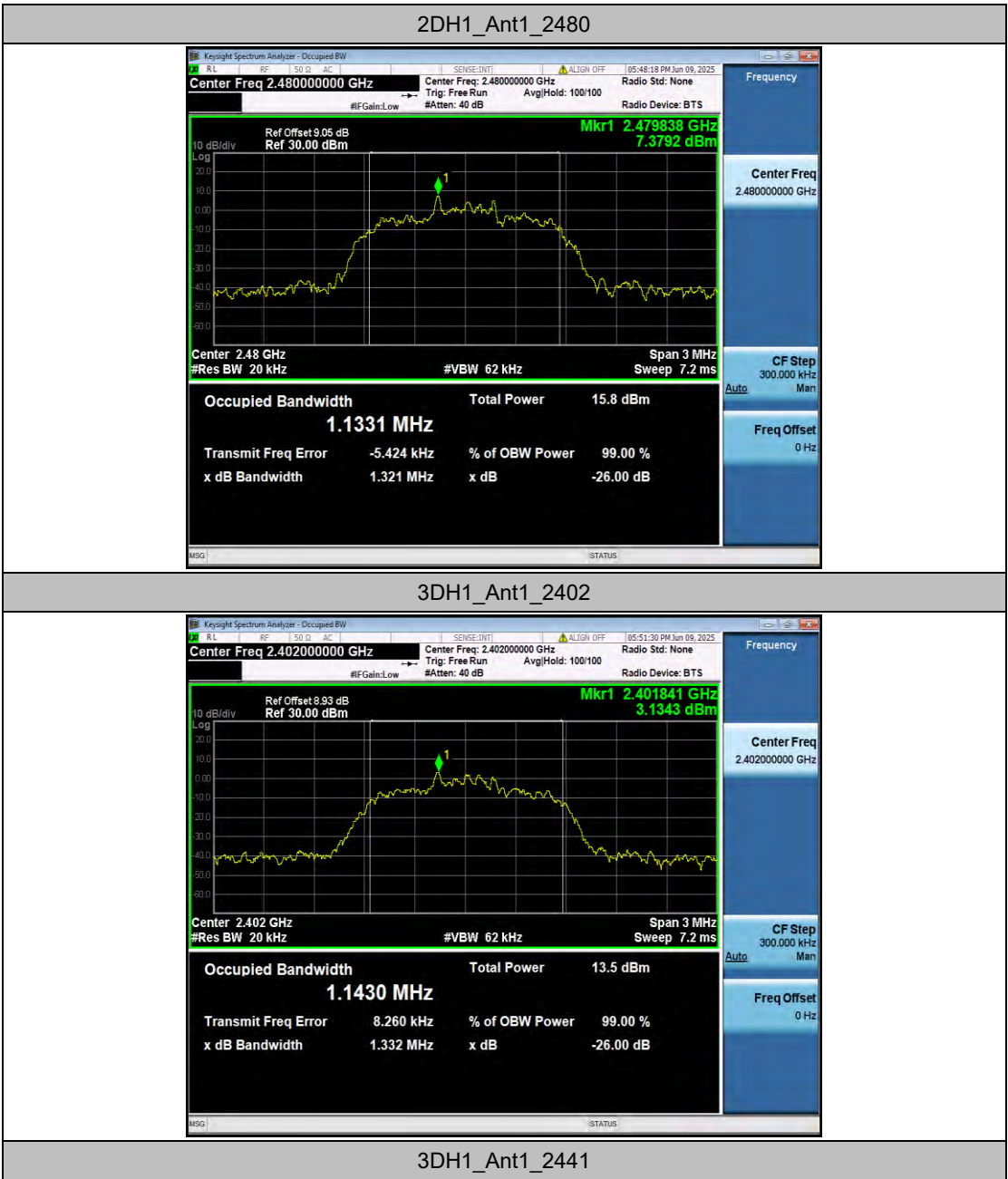
Test Result

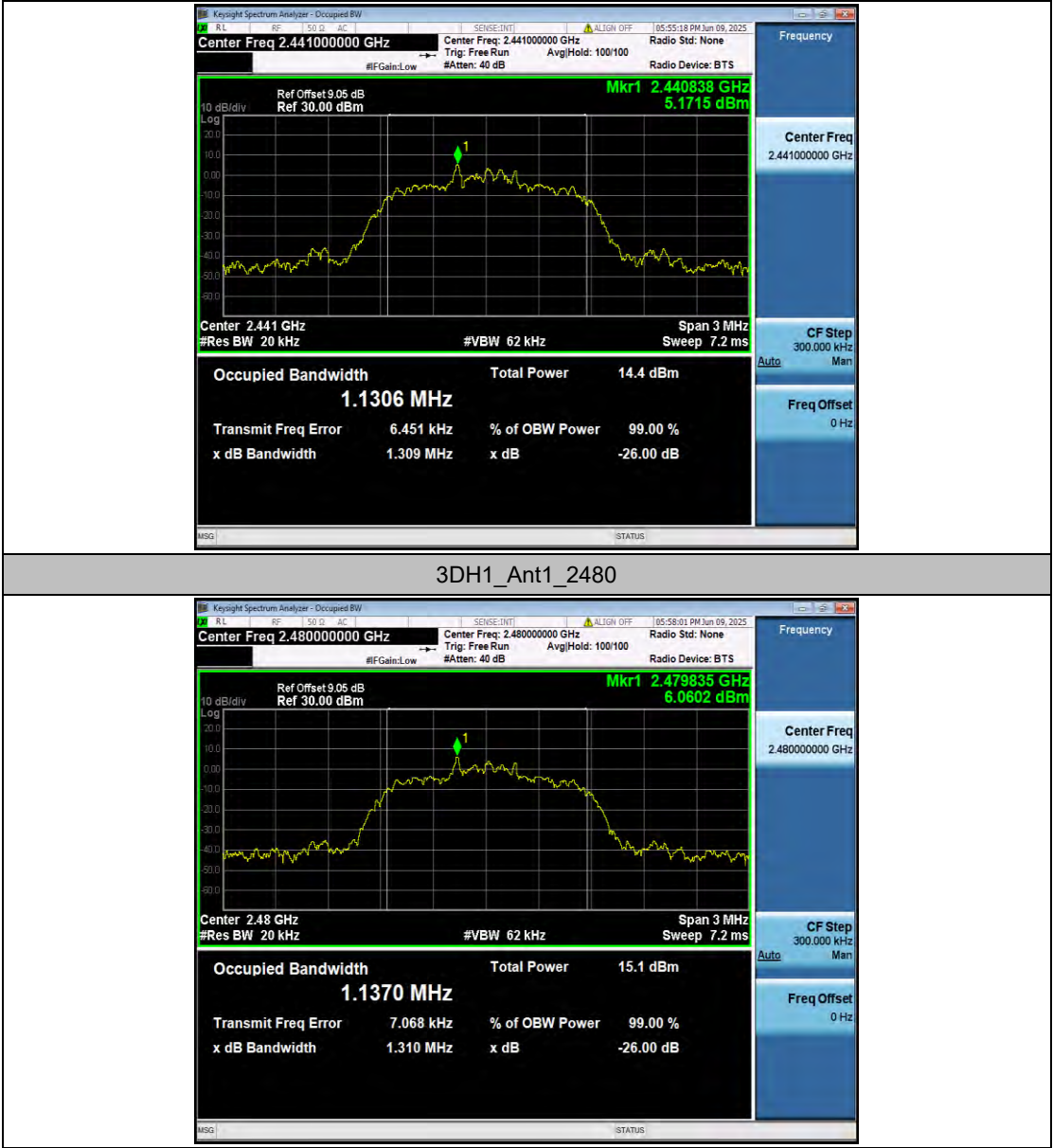
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.72331	2401.6330	2402.3563	---	---
		2441	0.71060	2440.6355	2441.3461	---	---
		2480	0.71405	2479.6340	2480.3480	---	---
2DH1	Ant1	2402	1.1490	2401.4227	2402.5717	---	---
		2441	1.1409	2440.4269	2441.5678	---	---
		2480	1.1331	2479.4280	2480.5611	---	---
3DH1	Ant1	2402	1.1430	2401.4368	2402.5798	---	---
		2441	1.1306	2440.4412	2441.5718	---	---
		2480	1.1370	2479.4386	2480.5756	---	---

Test Graphs









Appendix A.3: Maximum conducted output power

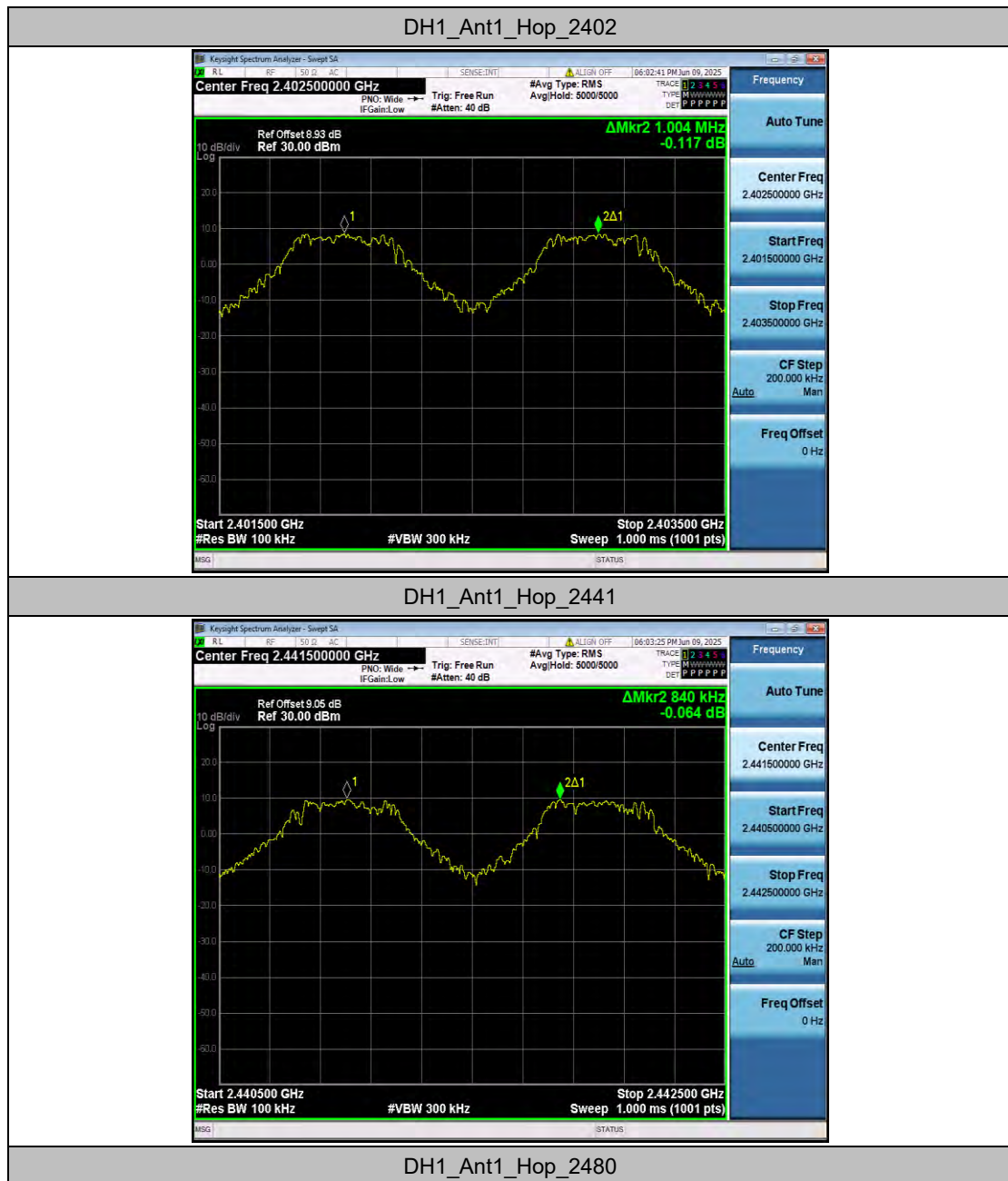
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	4.15	≤20.97	PASS
		2441	4.68	≤20.97	PASS
		2480	5.25	≤20.97	PASS
2DH1	Ant1	2402	1.65	≤20.97	PASS
		2441	4.32	≤20.97	PASS
		2480	4.10	≤20.97	PASS
3DH1	Ant1	2402	0.49	≤20.97	PASS
		2441	3.24	≤20.97	PASS
		2480	4.13	≤20.97	PASS

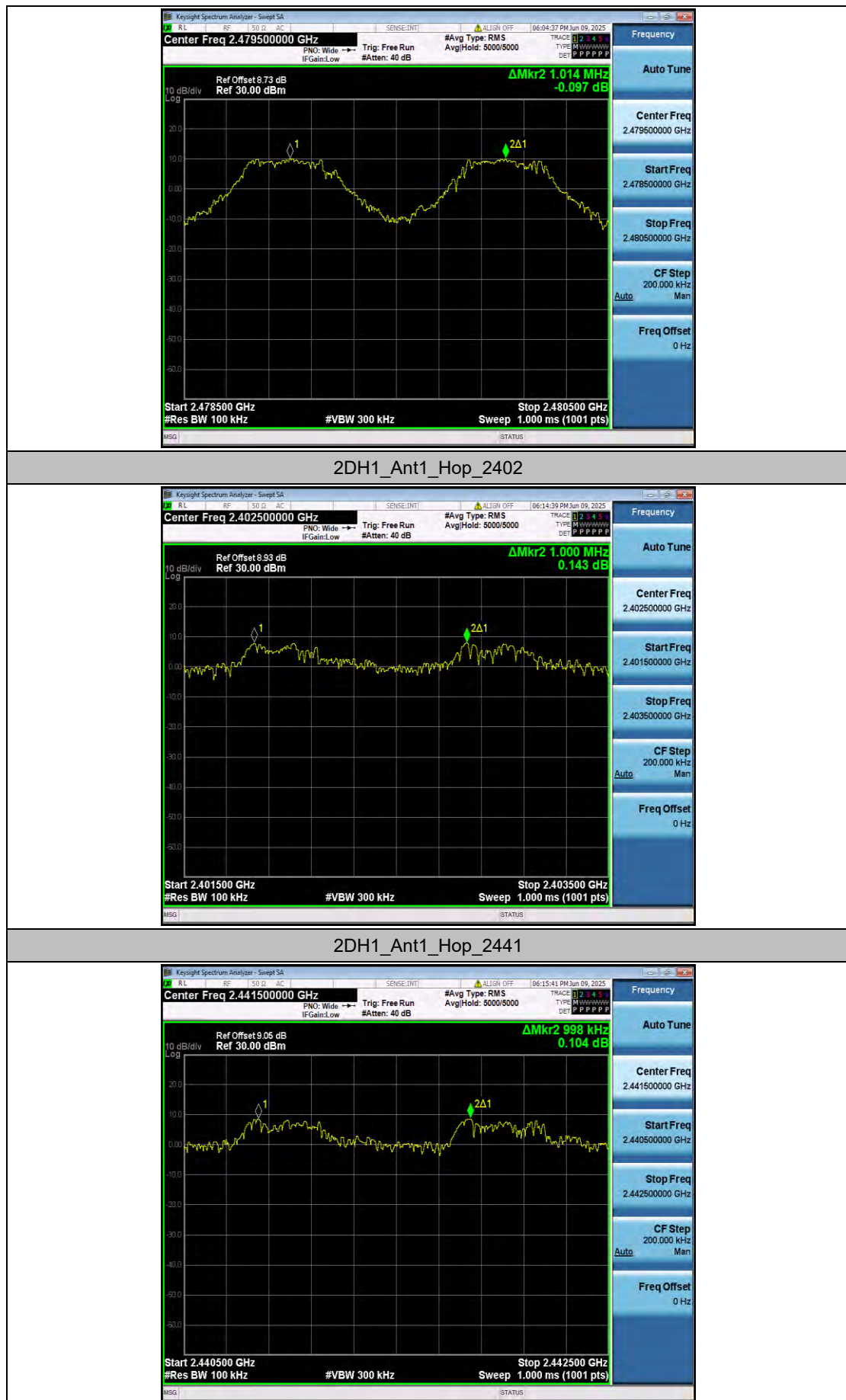
Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.004	≥ 0.566	PASS
		Hop_2441	0.84	≥ 0.566	PASS
		Hop_2480	1.014	≥ 0.566	PASS
2DH1	Ant1	Hop_2402	1	≥ 0.842	PASS
		Hop_2441	0.998	≥ 0.842	PASS
		Hop_2480	0.996	≥ 0.842	PASS
3DH1	Ant1	Hop_2402	1.004	≥ 0.832	PASS
		Hop_2441	1.006	≥ 0.832	PASS
		Hop_2480	0.992	≥ 0.832	PASS

Test Graphs





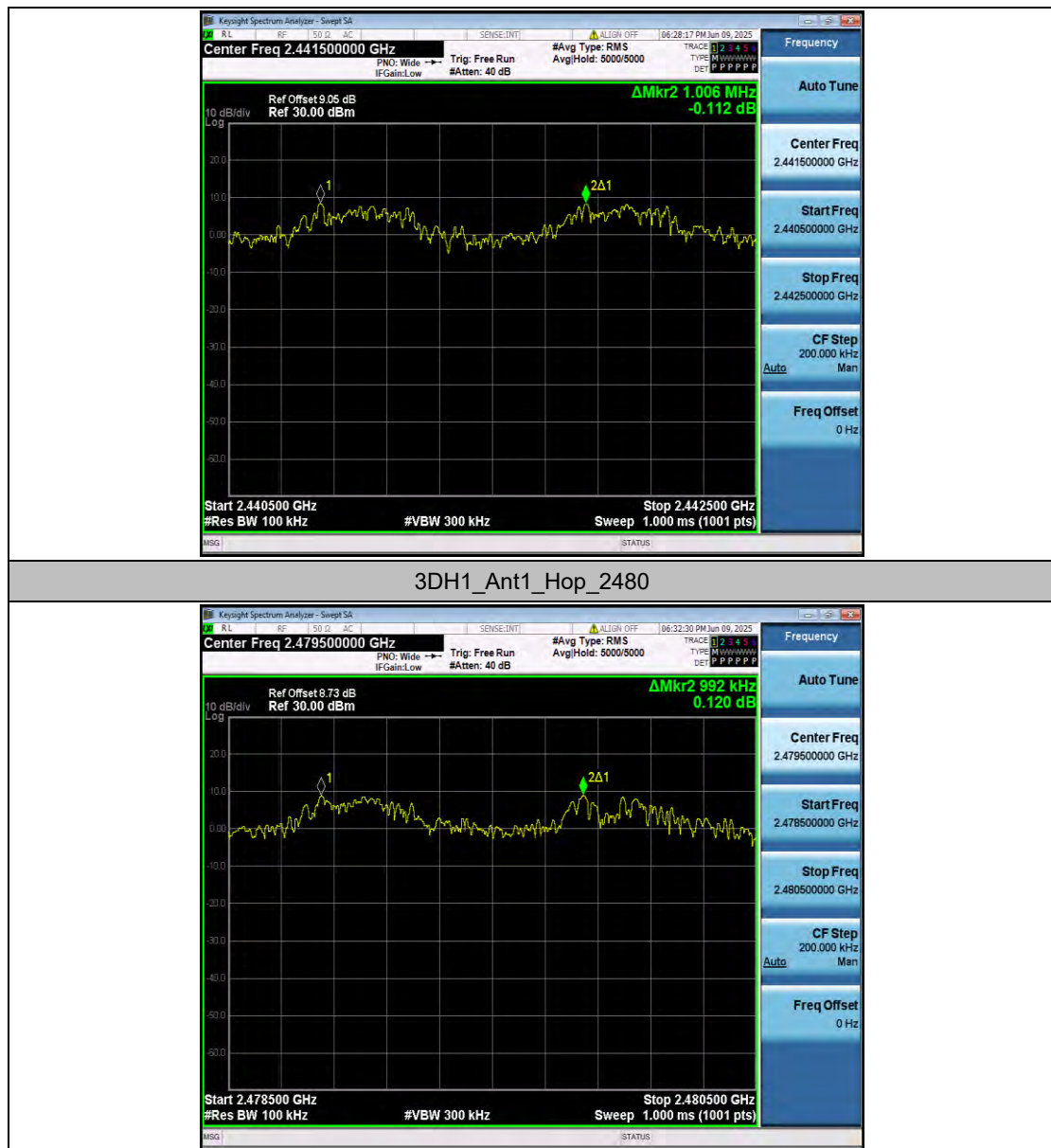
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

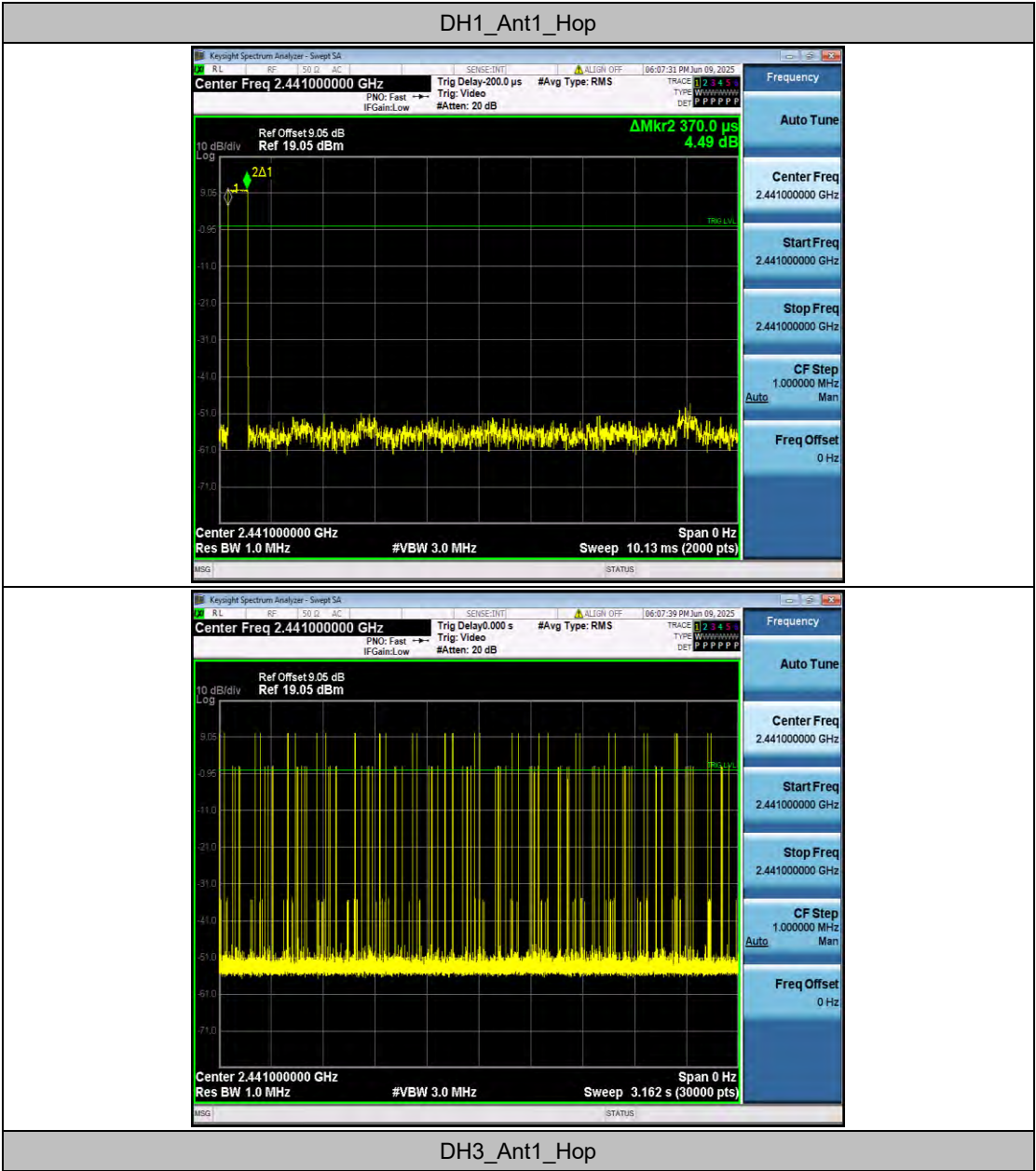


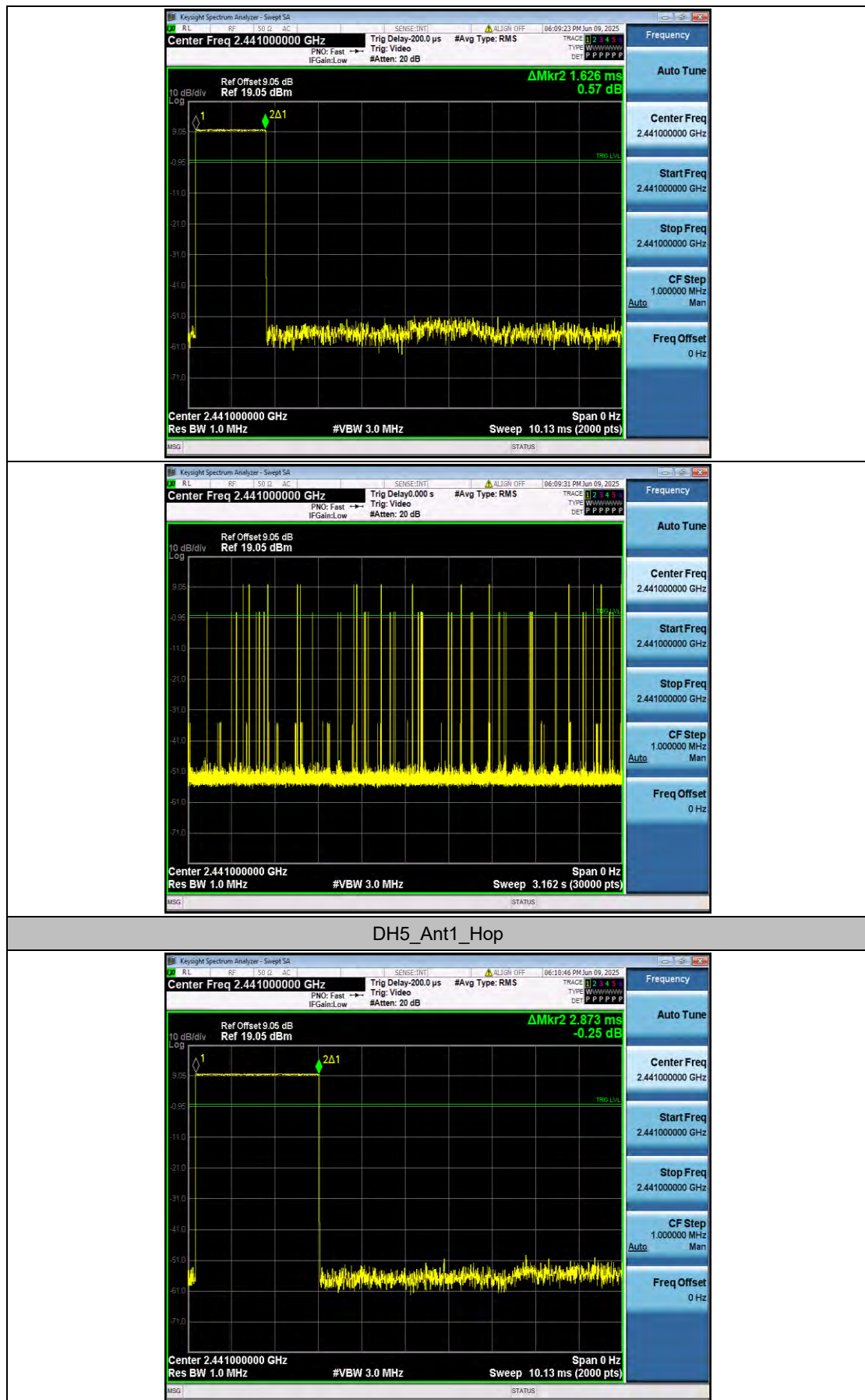
Appendix A.5: Time of occupancy

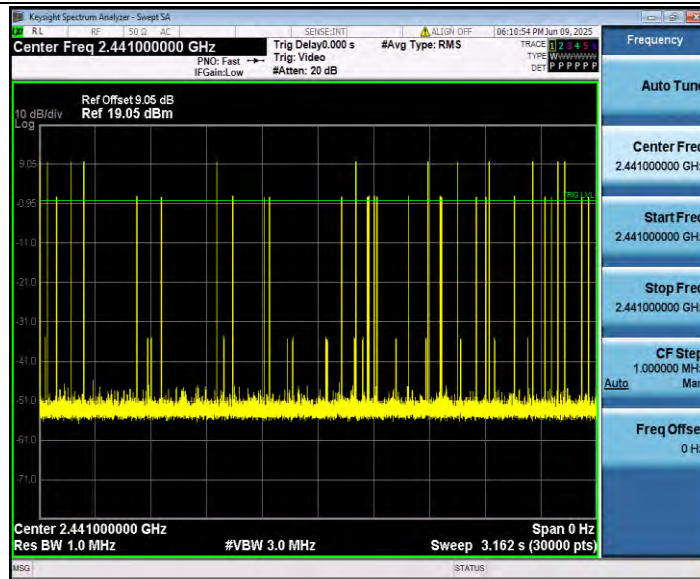
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	320	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.626	160	0.26	≤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	2.878	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	2.883	120	0.346	≤0.4	PASS

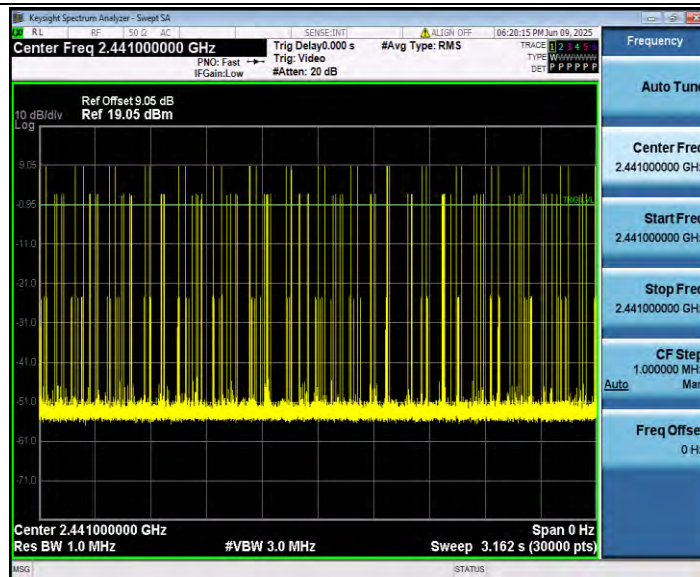
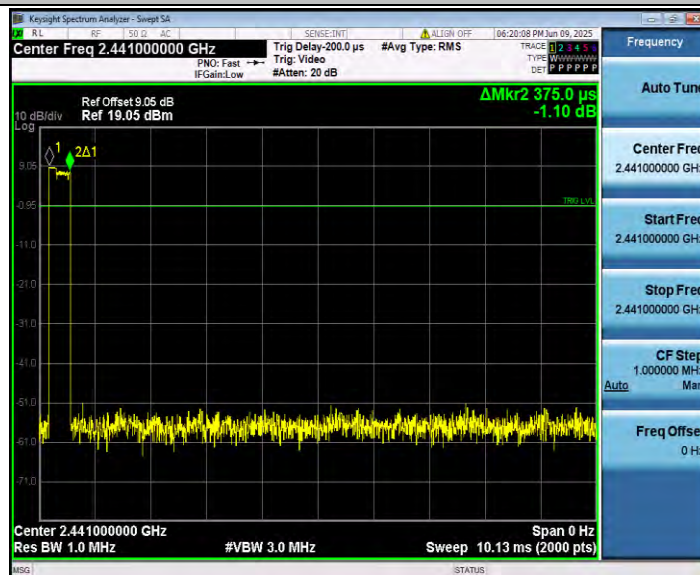
Test Graphs



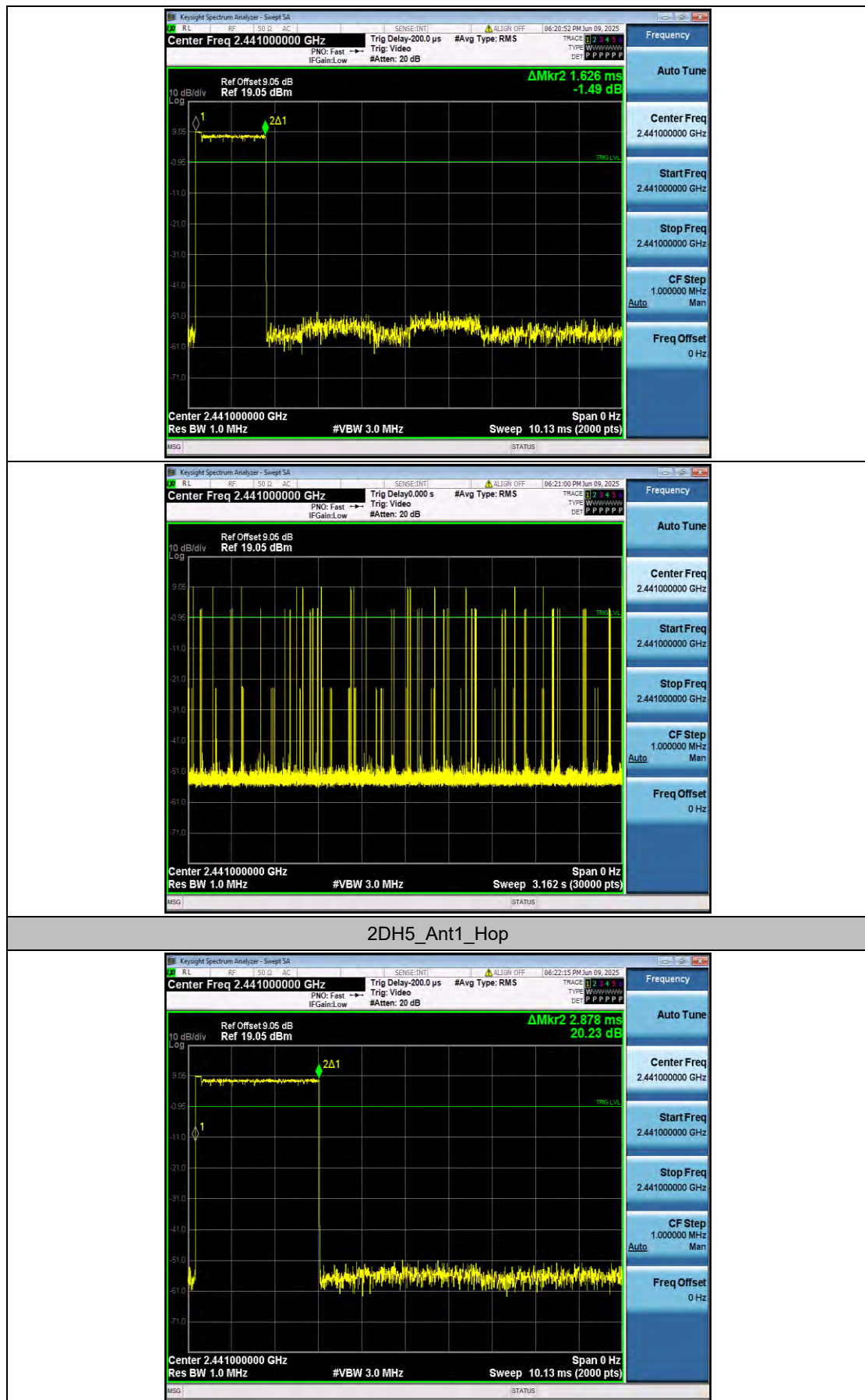


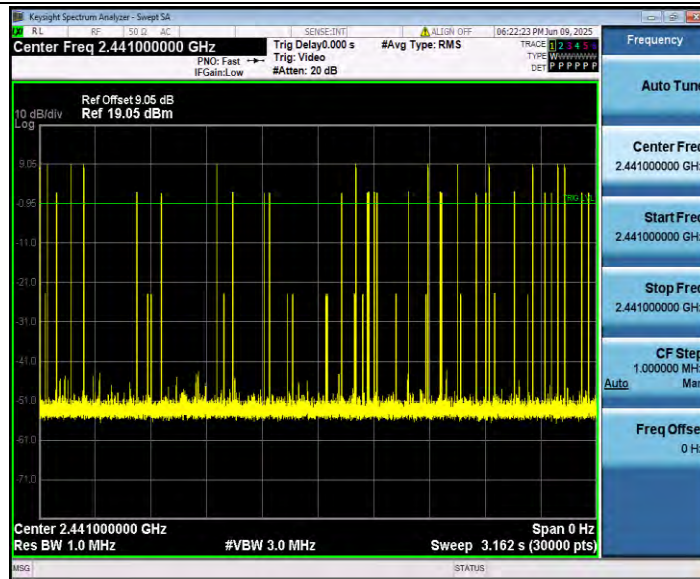


2DH1_Ant1_Hop

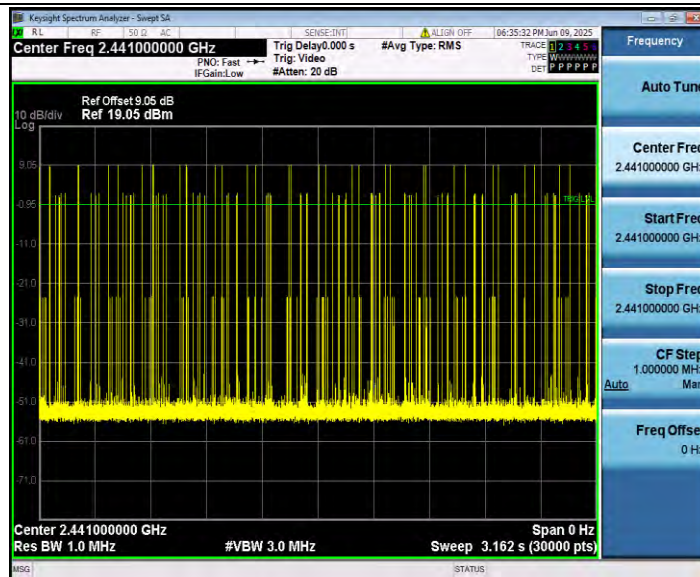
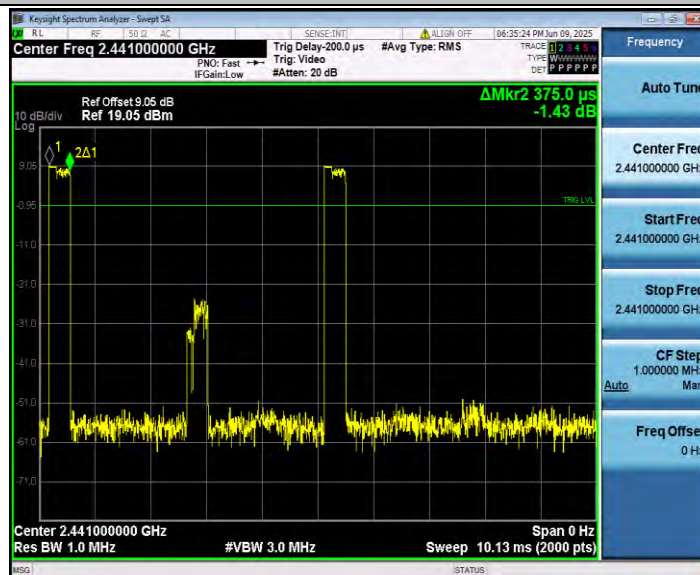


2DH3_Ant1_Hop

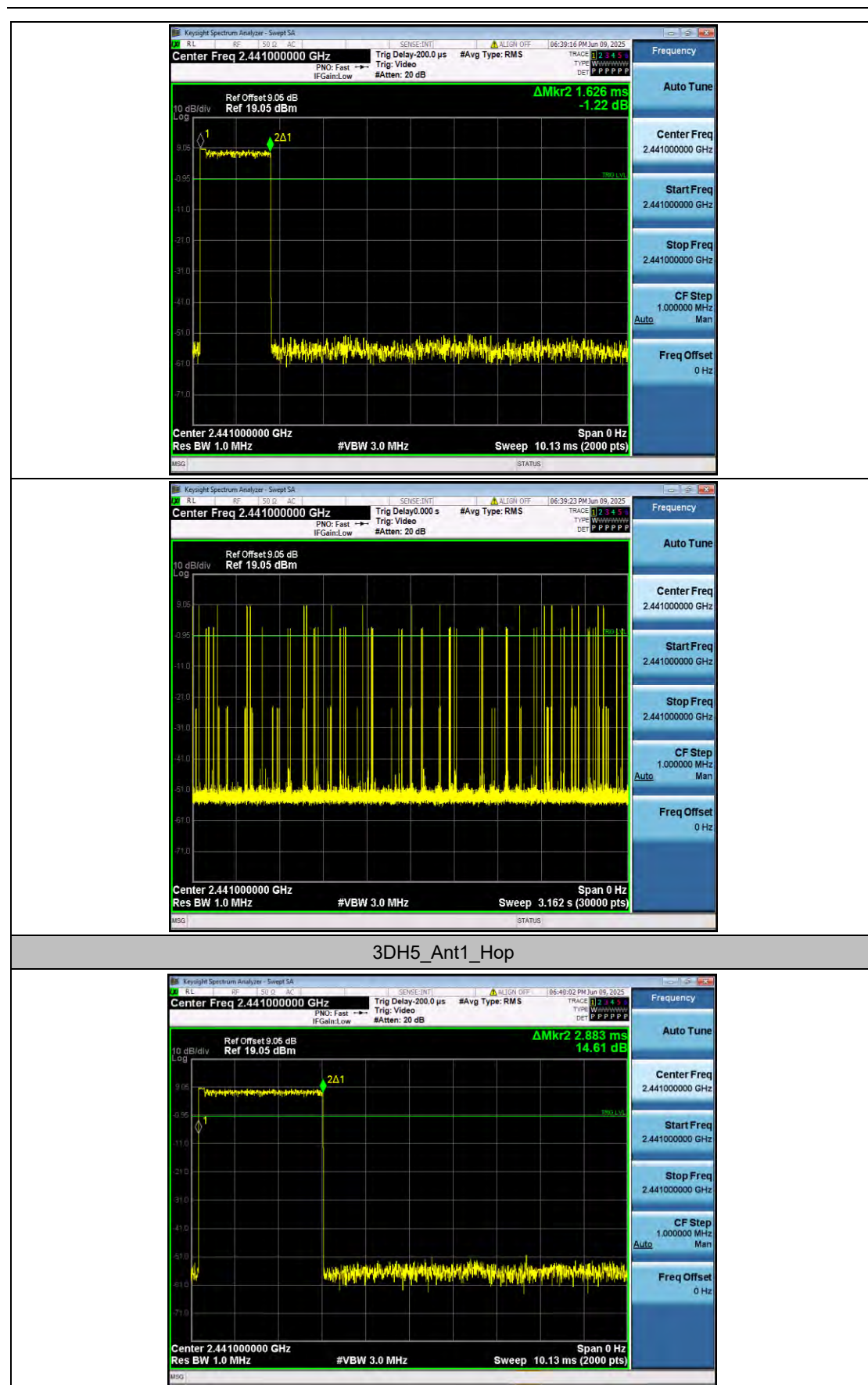


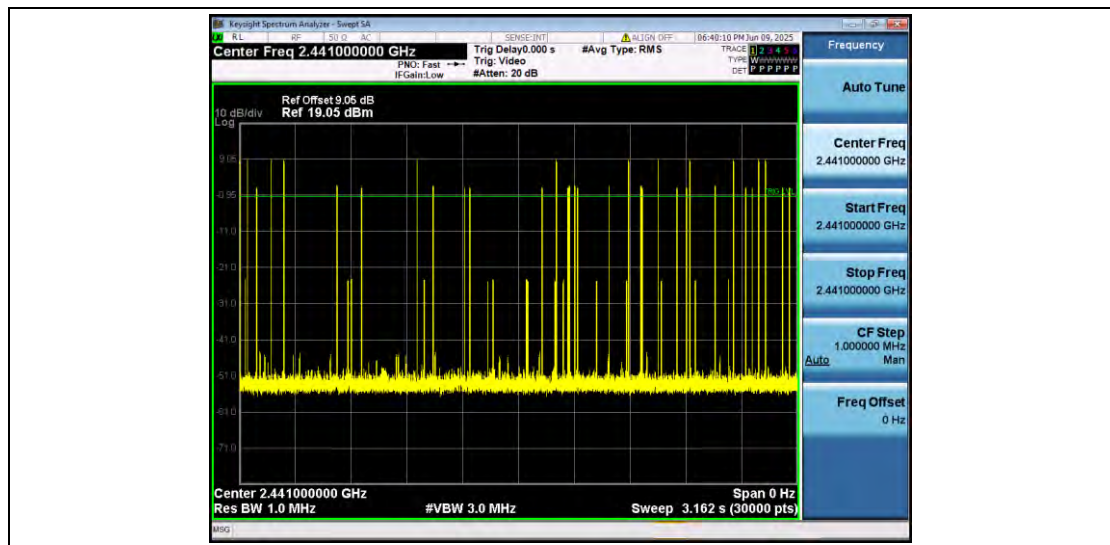


3DH1_Ant1_Hop



3DH3_Ant1_Hop



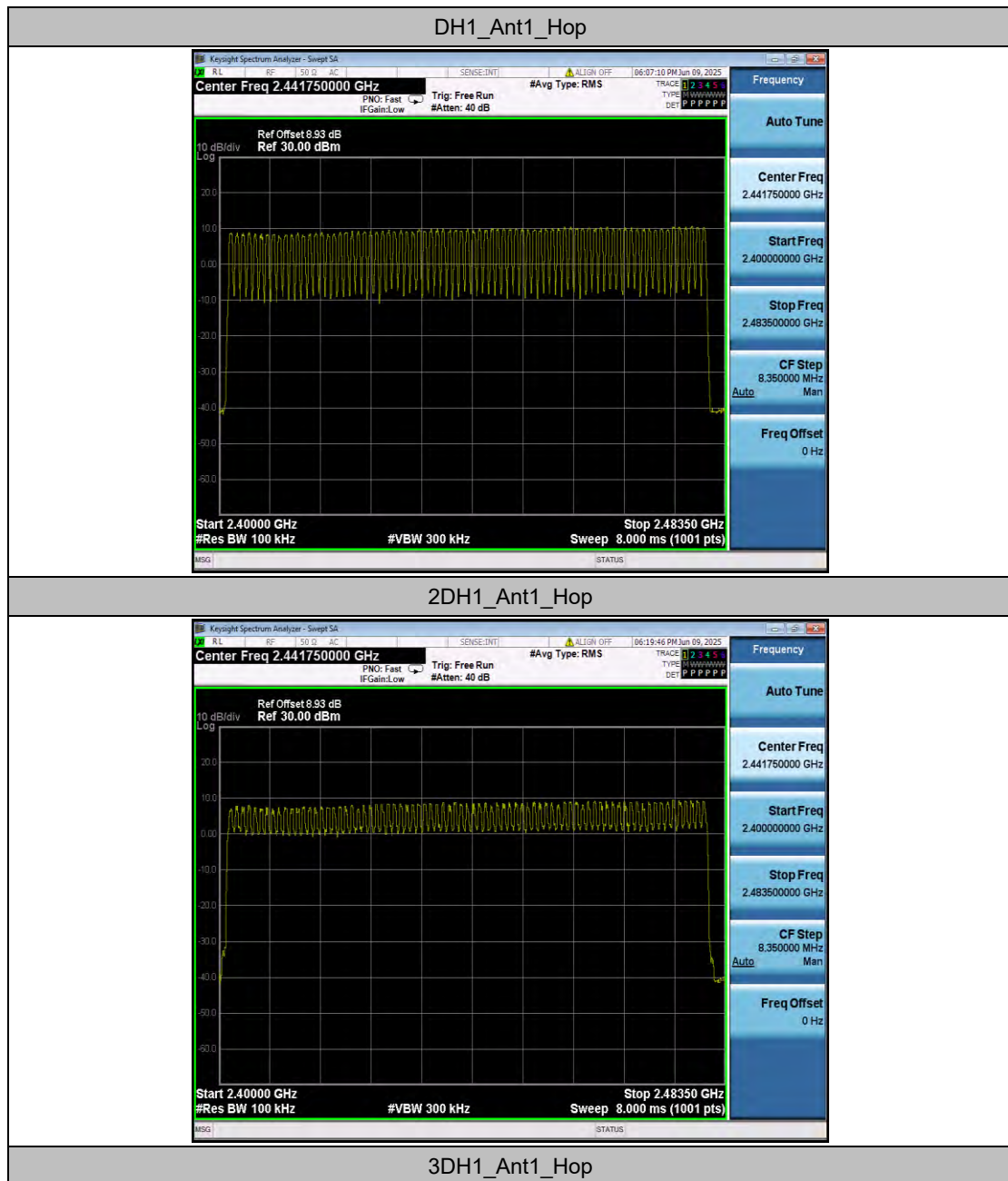


Appendix A.6: Number of hopping channels

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



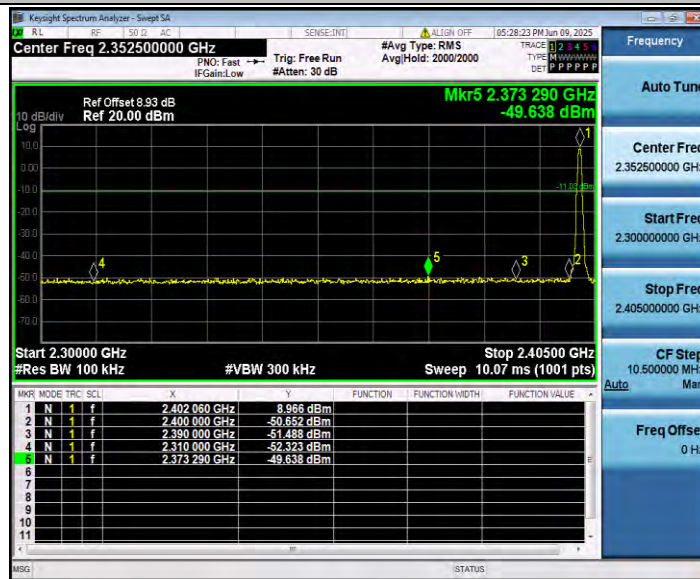
Appendix A.7: Band edge measurements

Test Result

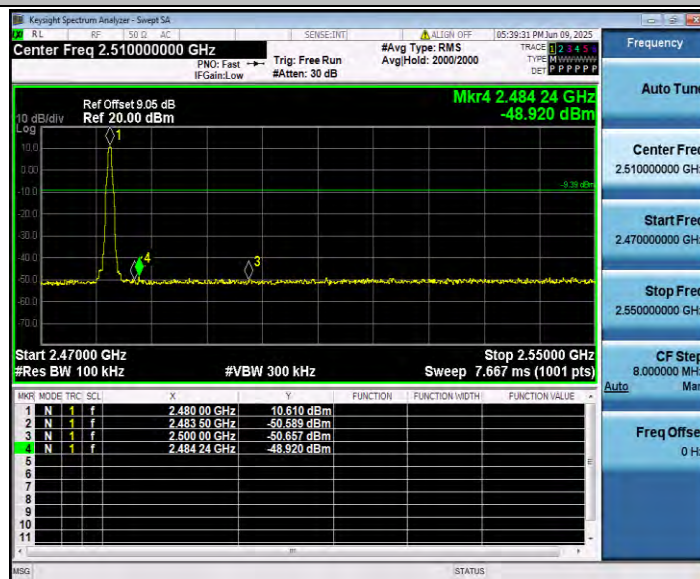
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.97	-49.64	≤ -11.03	PASS
		High	2480	10.61	-48.92	≤ -9.39	PASS
		Low	Hop_2402	8.34	-49.28	≤ -11.66	PASS
		High	Hop_2480	10.32	-48.95	≤ -9.68	PASS
2DH1	Ant1	Low	2402	8.15	-47.56	≤ -11.85	PASS
		High	2480	9.98	-47.83	≤ -10.02	PASS
		Low	Hop_2402	6.89	-49.37	≤ -13.11	PASS
		High	Hop_2480	9.13	-48.61	≤ -10.87	PASS
3DH1	Ant1	Low	2402	8.21	-44.42	≤ -11.79	PASS
		High	2480	10.02	-48.7	≤ -9.98	PASS
		Low	Hop_2402	7.22	-48.12	≤ -12.78	PASS
		High	Hop_2480	9.35	-48.53	≤ -10.65	PASS

Test Graphs

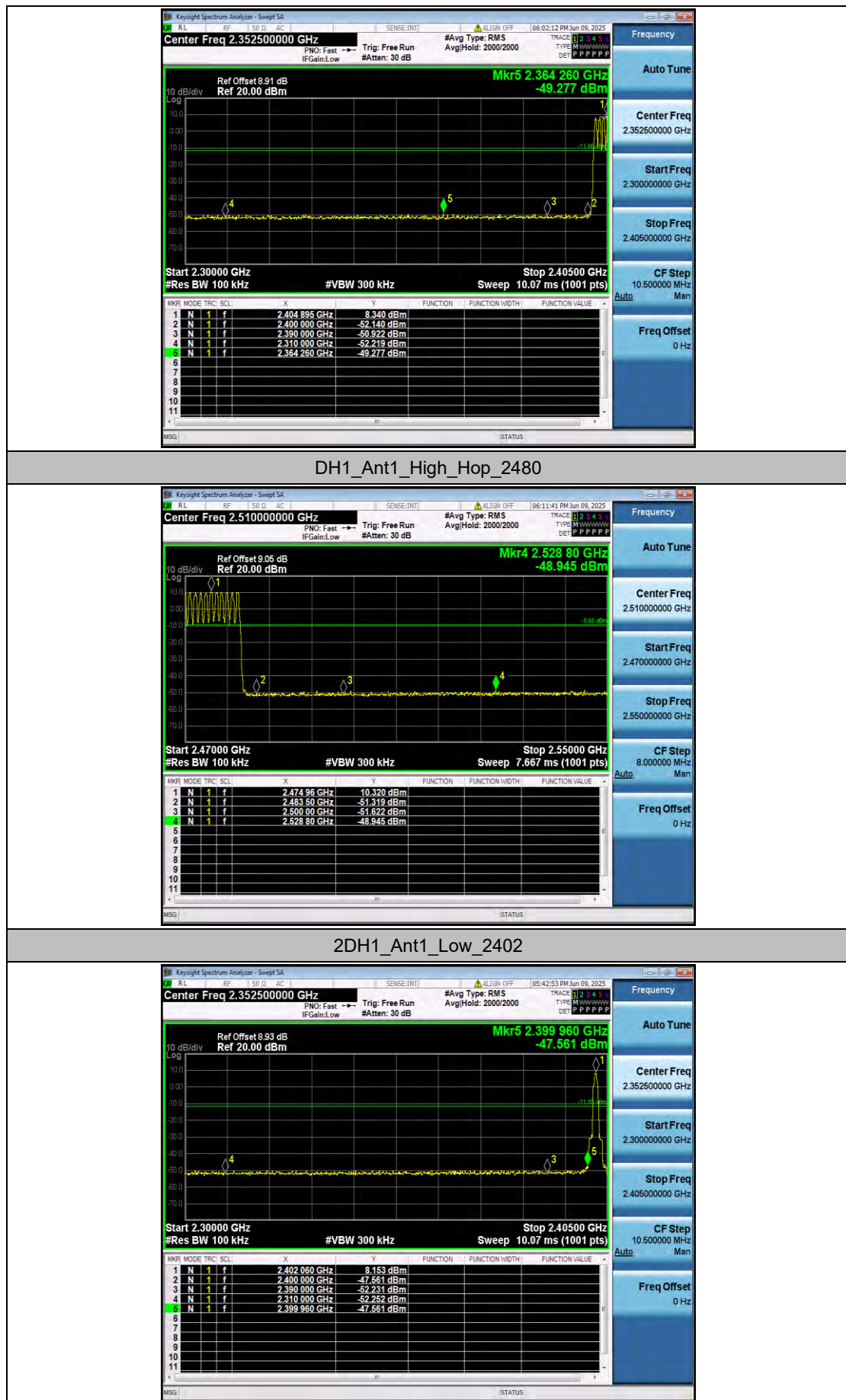
DH1_Ant1_Low_2402



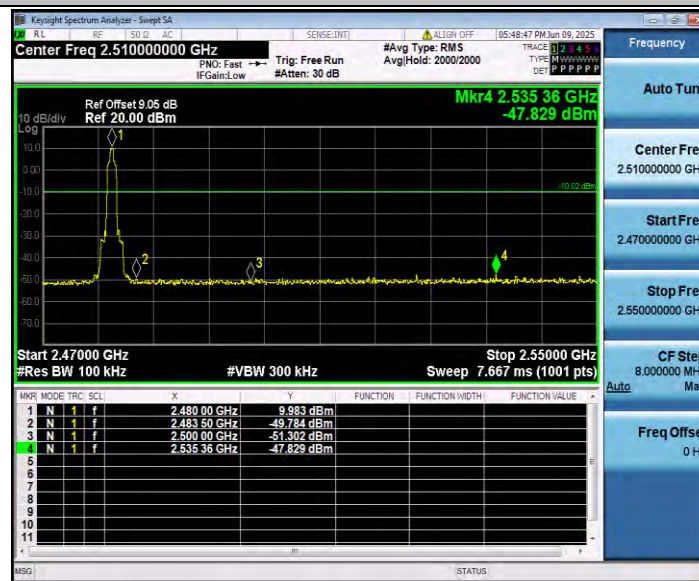
DH1_Ant1_High_2480



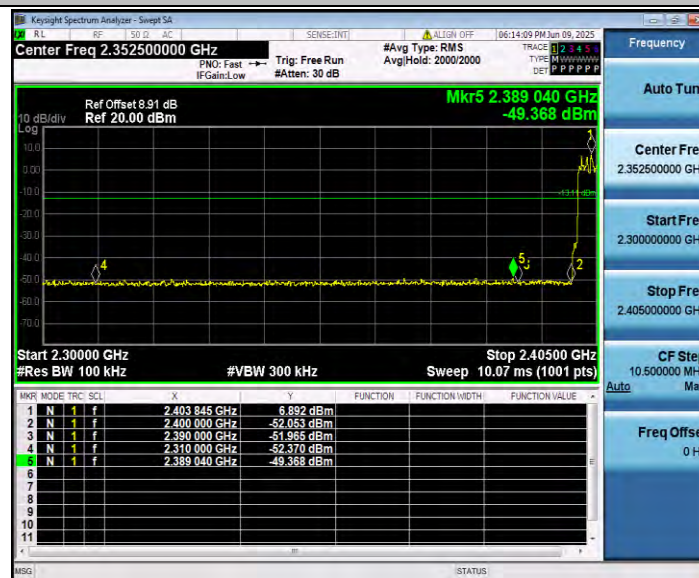
DH1_Ant1_Low_Hop_2402



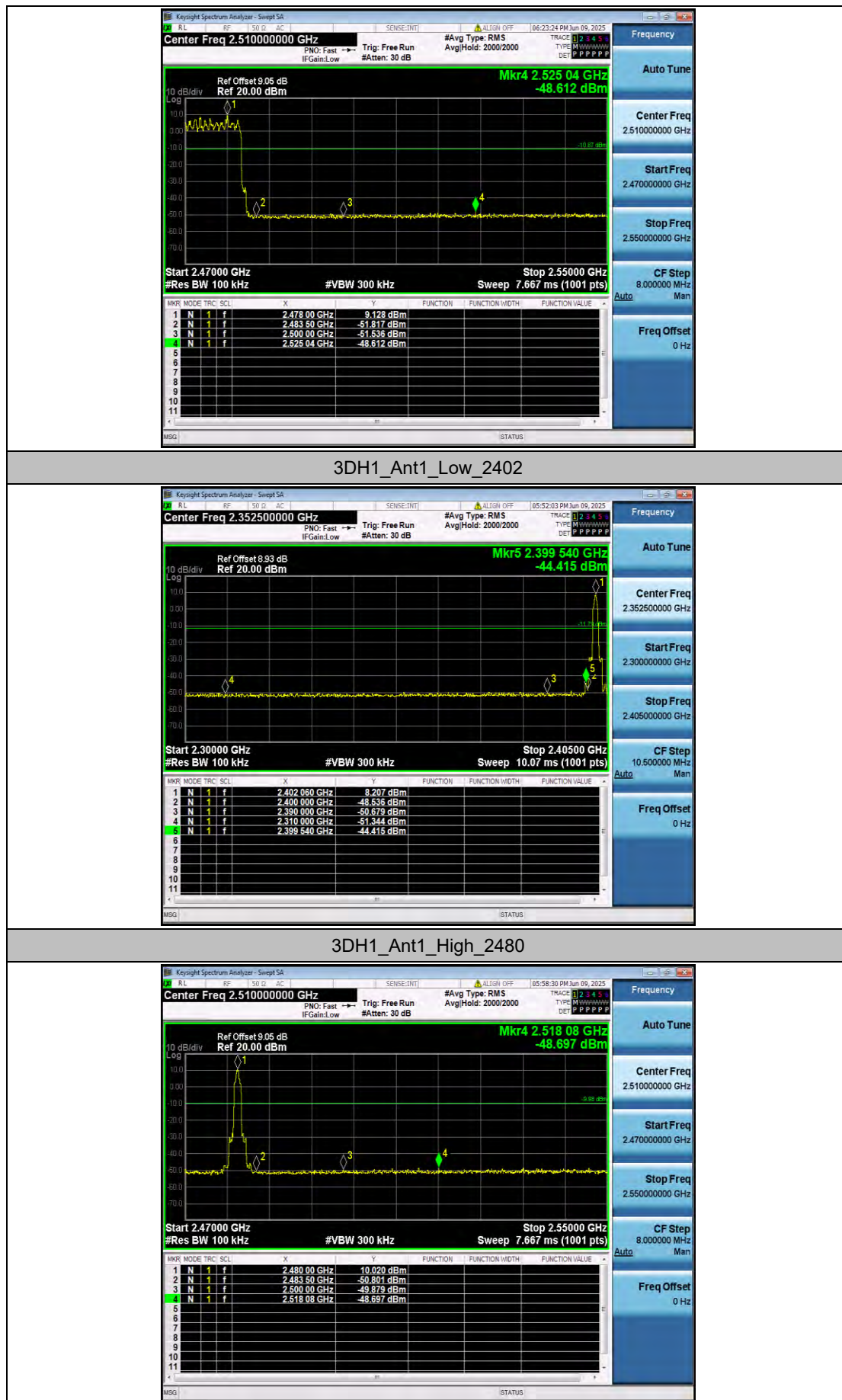
2DH1_Ant1_High_2480



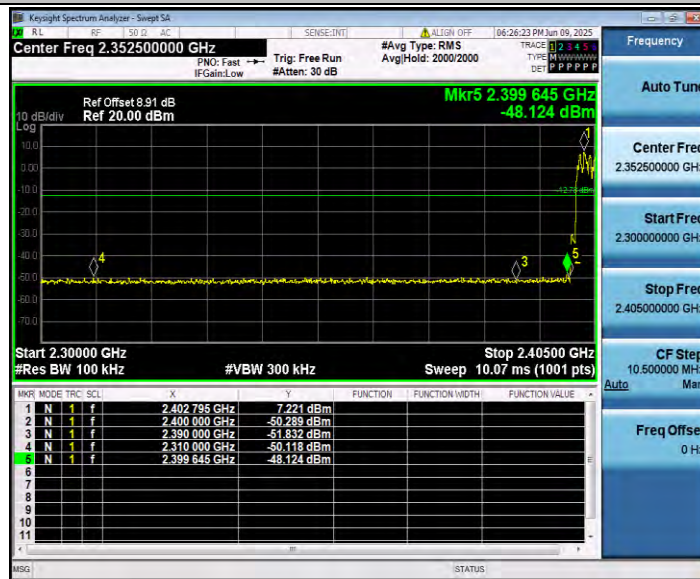
2DH1_Ant1_Low_Hop_2402



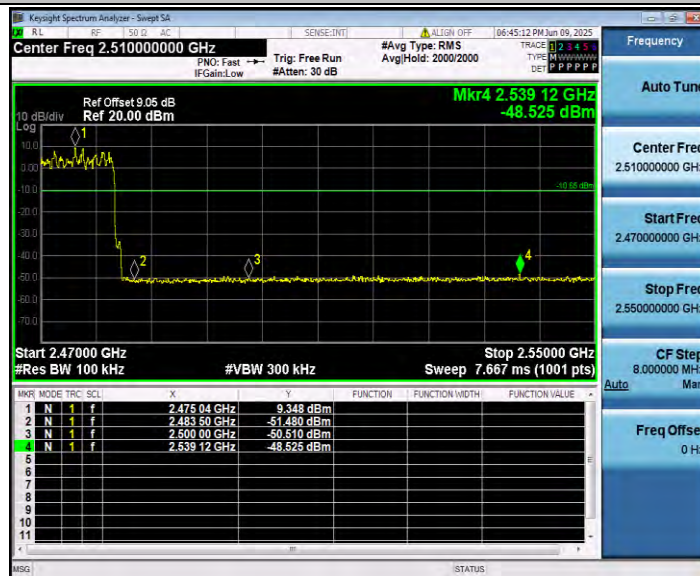
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

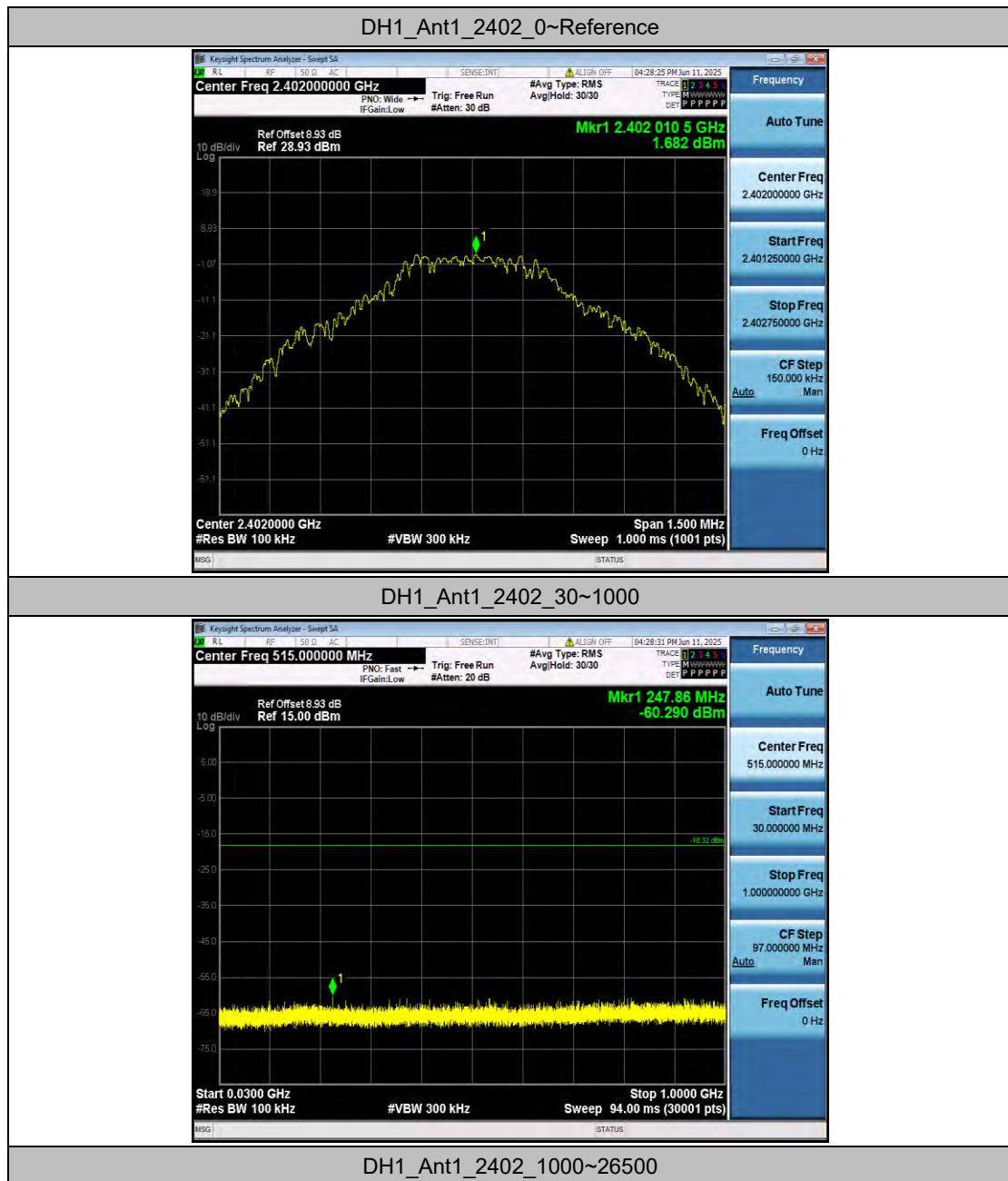


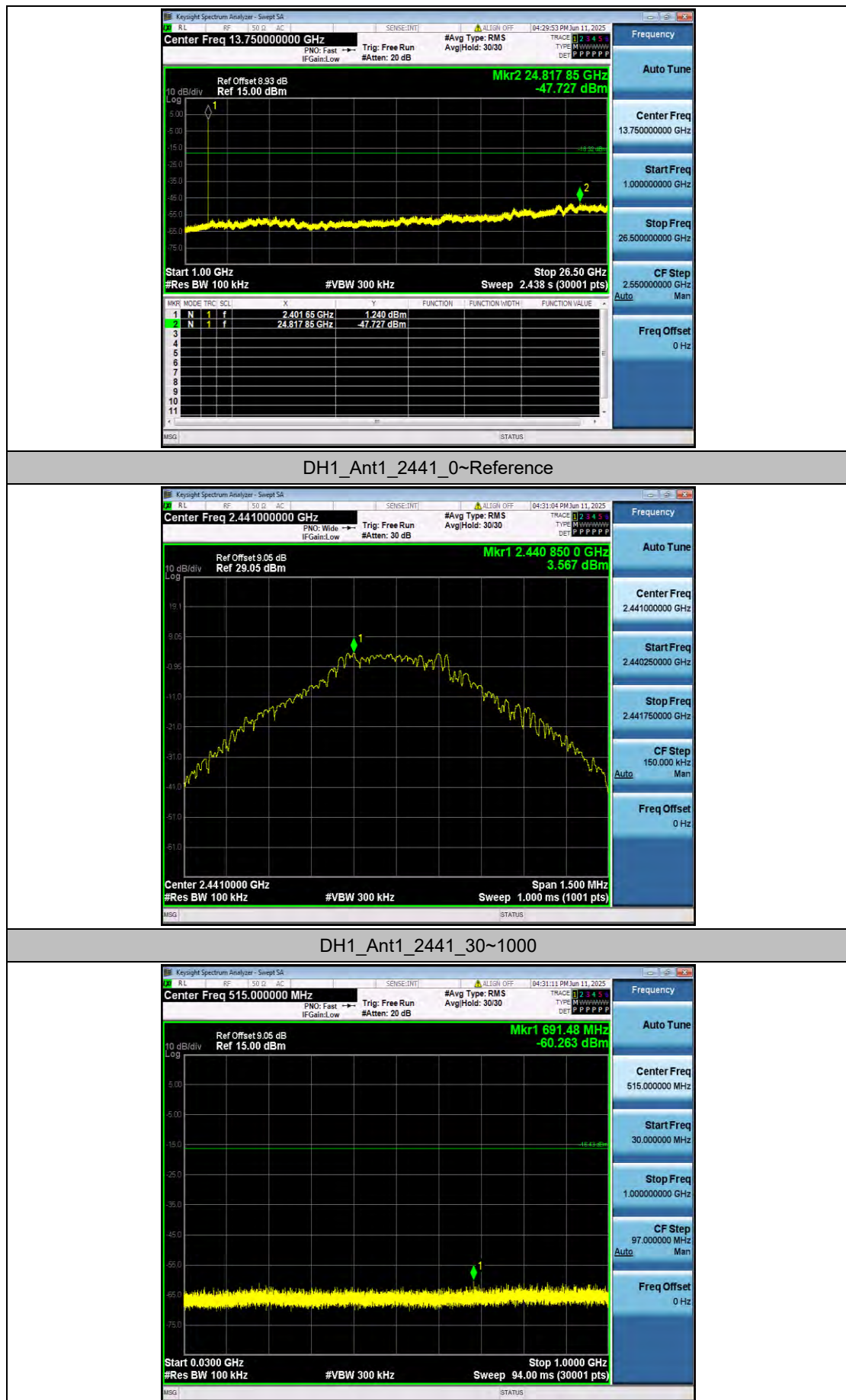
Appendix A.8: Conducted Spurious Emission

Test Result

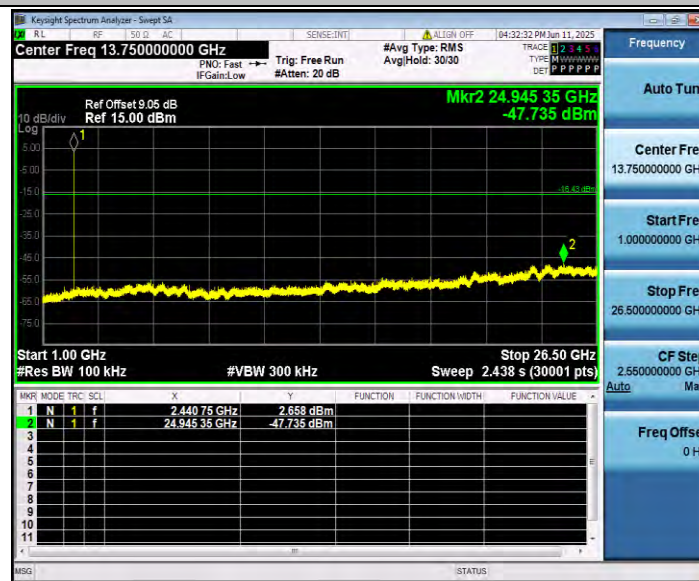
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	1.68	1.68	---	PASS
			30~1000	1.68	-60.29	≤-18.32	PASS
			1000~26500	1.68	-47.73	≤-18.32	PASS
		2441	Reference	3.57	3.57	---	PASS
			30~1000	3.57	-60.26	≤-16.43	PASS
			1000~26500	3.57	-47.74	≤-16.43	PASS
		2480	Reference	4.39	4.39	---	PASS
			30~1000	4.39	-60.66	≤-15.61	PASS
			1000~26500	4.39	-48.23	≤-15.61	PASS
2DH1	Ant1	2402	Reference	0.75	0.75	---	PASS
			30~1000	0.75	-60.72	≤-19.25	PASS
			1000~26500	0.75	-48.49	≤-19.25	PASS
		2441	Reference	3.20	3.20	---	PASS
			30~1000	3.20	-59.92	≤-16.8	PASS
			1000~26500	3.20	-48.04	≤-16.8	PASS
		2480	Reference	4.47	4.47	---	PASS
			30~1000	4.47	-60.33	≤-15.53	PASS
			1000~26500	4.47	-47.86	≤-15.53	PASS
3DH1	Ant1	2402	Reference	-0.76	-0.76	---	PASS
			30~1000	-0.76	-60.46	≤-20.76	PASS
			1000~26500	-0.76	-48.18	≤-20.76	PASS
		2441	Reference	2.52	2.52	---	PASS
			30~1000	2.52	-61.14	≤-17.48	PASS
			1000~26500	2.52	-47.93	≤-17.48	PASS
		2480	Reference	3.40	3.40	---	PASS
			30~1000	3.40	-60.76	≤-16.6	PASS
			1000~26500	3.40	-47.64	≤-16.6	PASS

Test Graphs

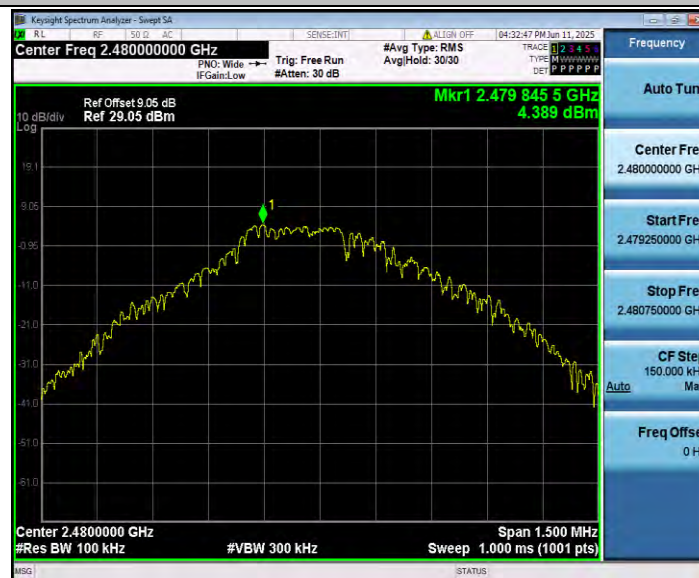




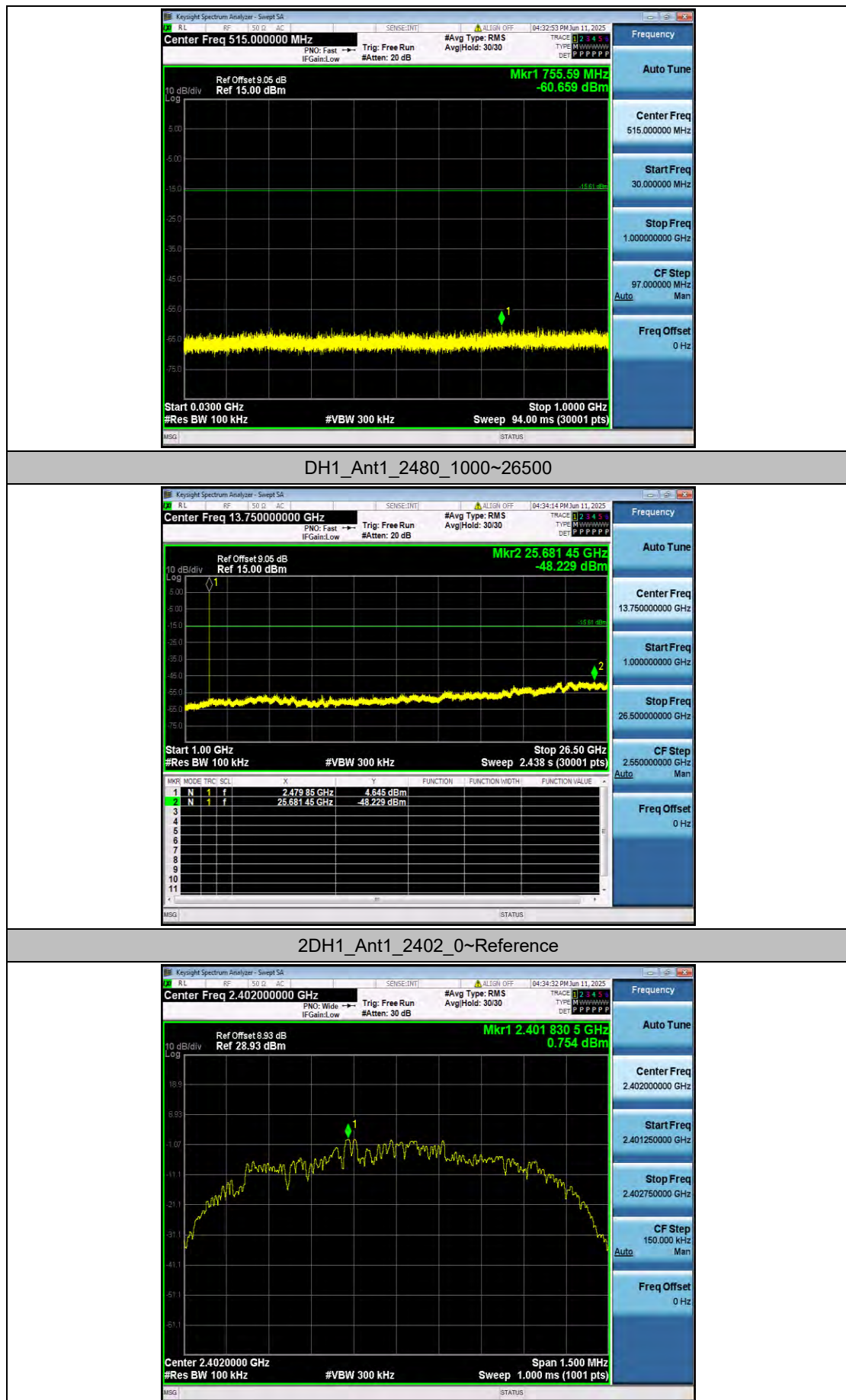
DH1_Ant1_2441_1000~26500



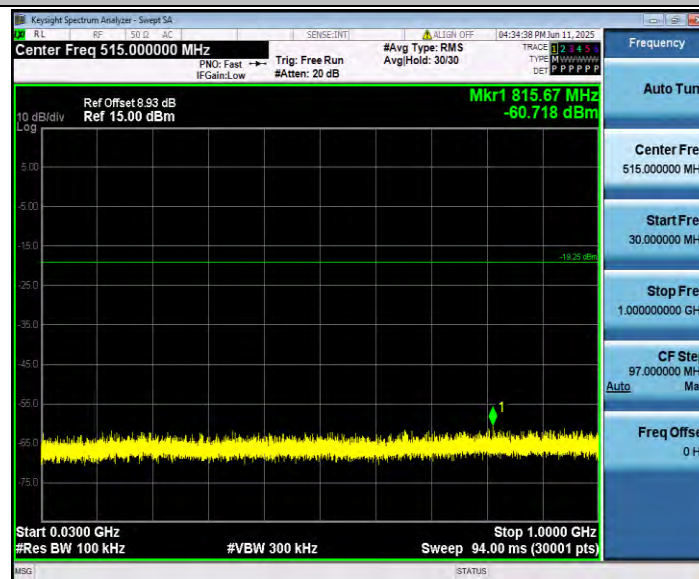
DH1_Ant1_2480_0~Reference



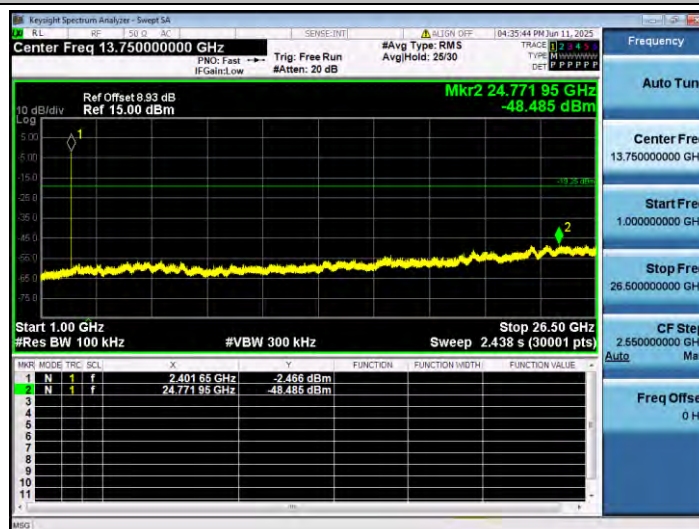
DH1_Ant1_2480_30~1000



2DH1_Ant1_2402_30~1000



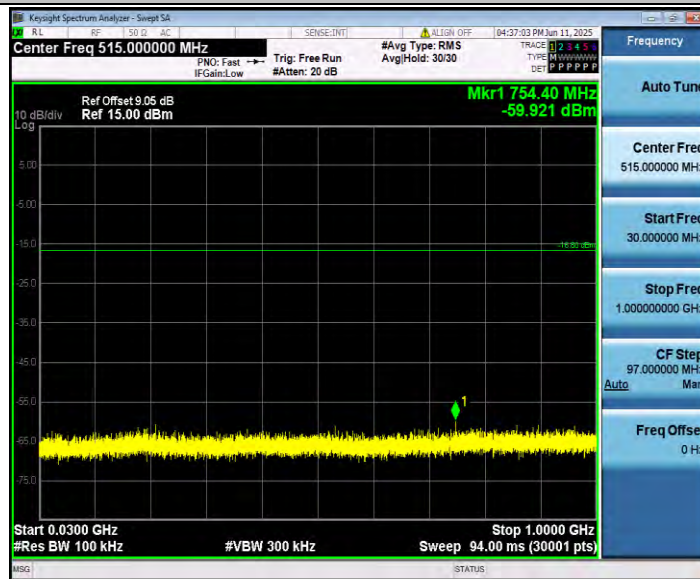
2DH1_Ant1_2402_1000~26500



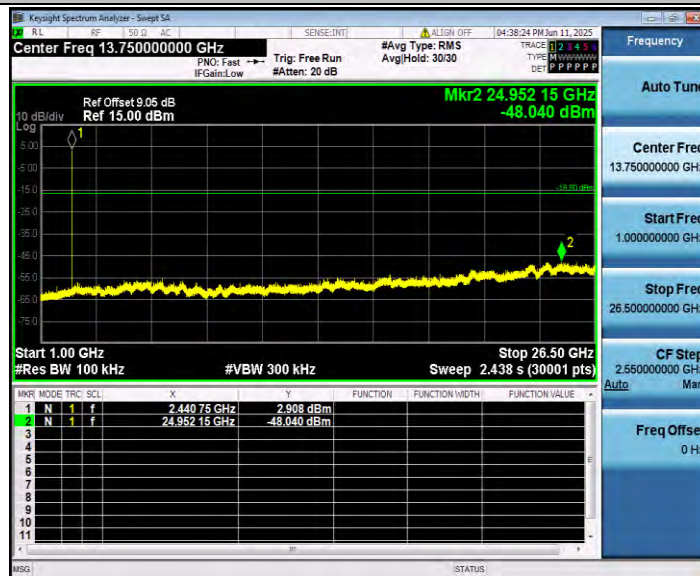
2DH1_Ant1_2441_0~Reference



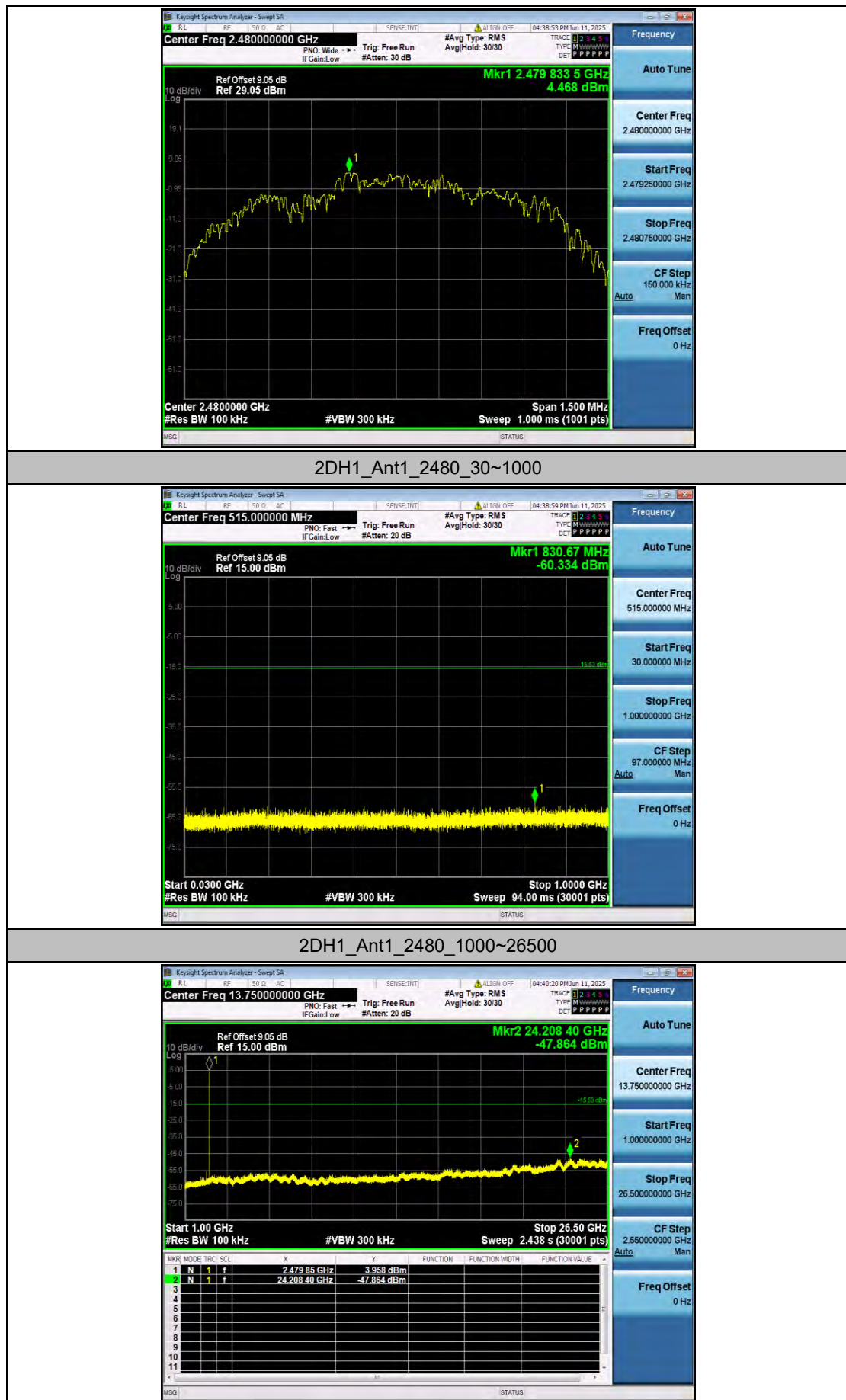
2DH1_Ant1_2441_30~1000



2DH1_Ant1_2441_1000~26500



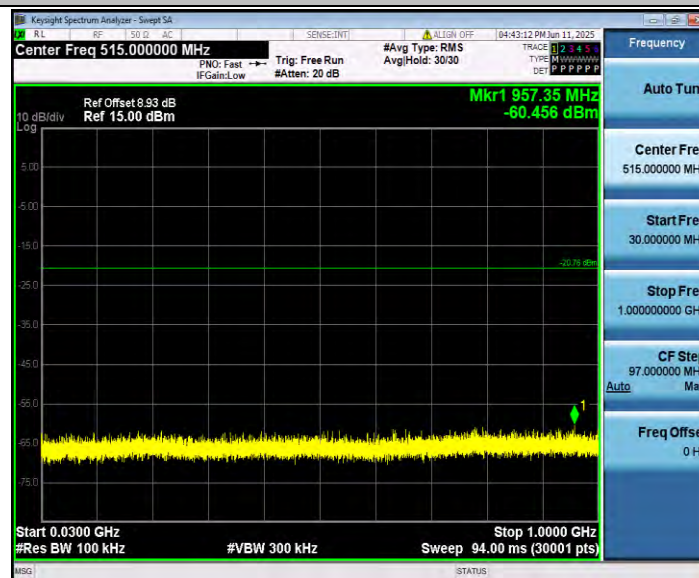
2DH1_Ant1_2480_0~Reference



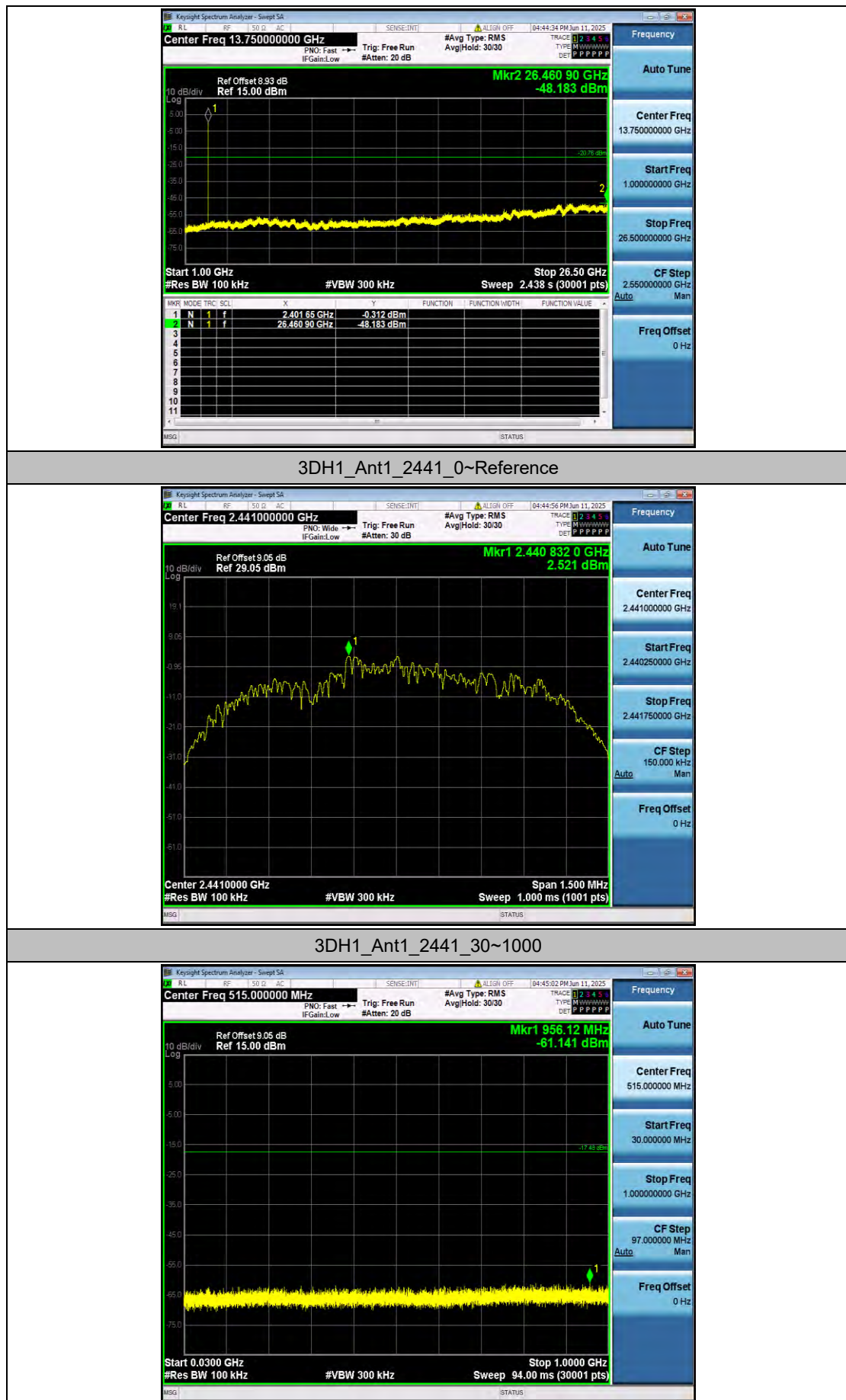
3DH1_Ant1_2402_0~Reference



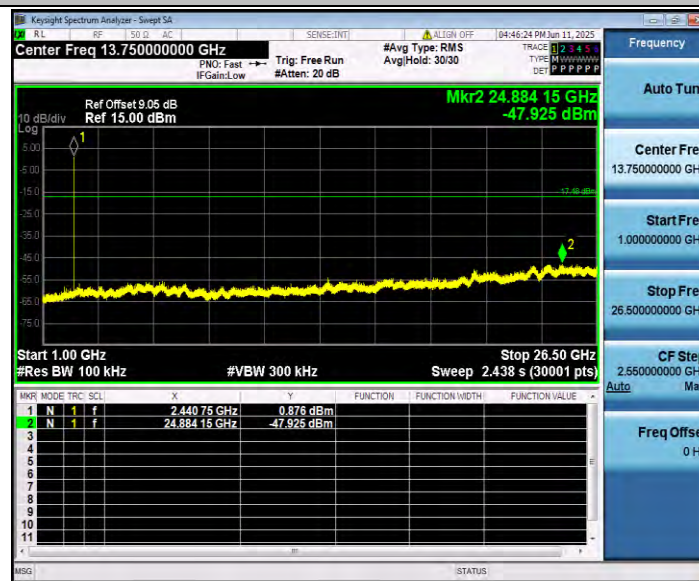
3DH1_Ant1_2402_30~1000



3DH1_Ant1_2402_1000~26500



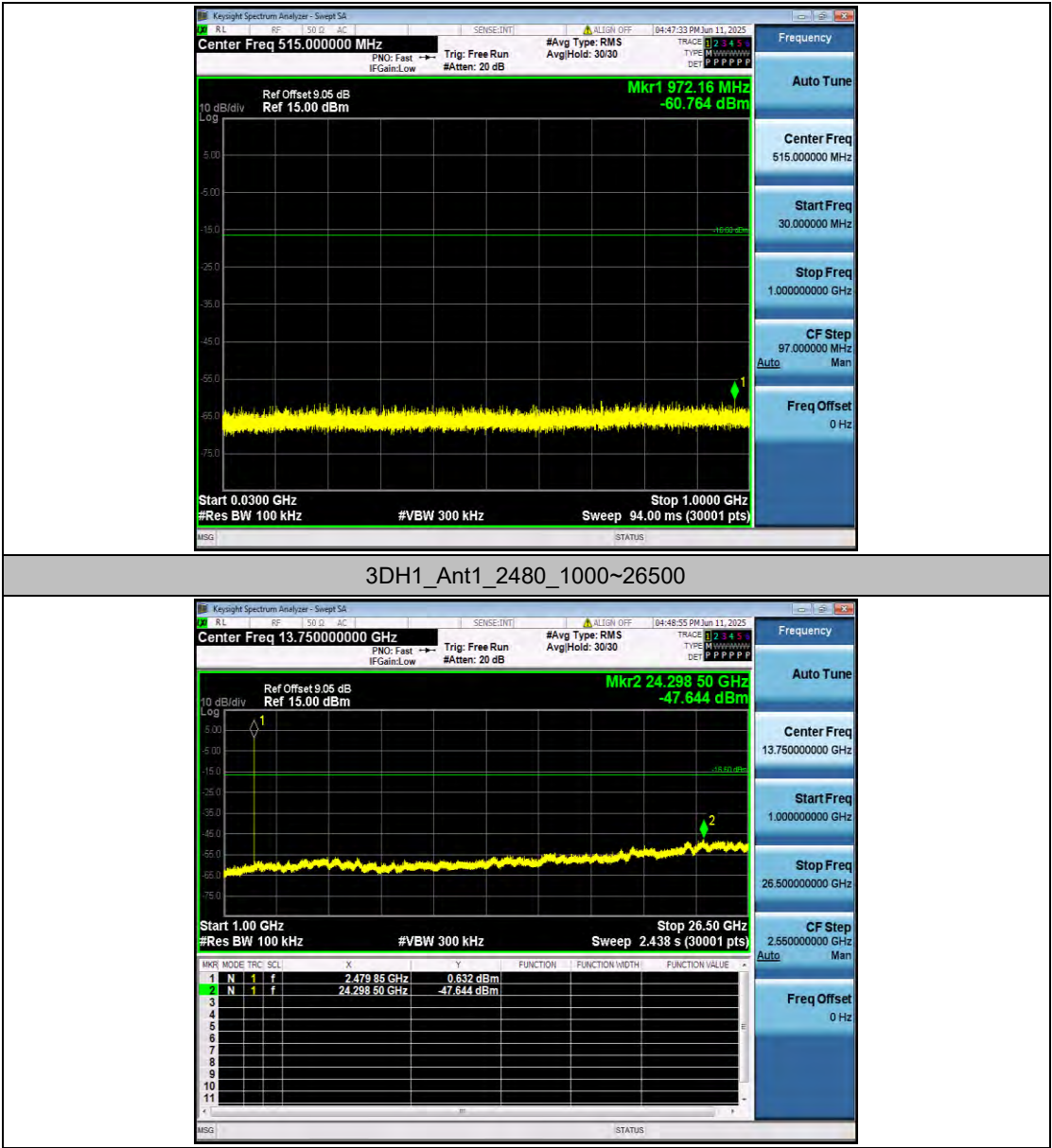
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



Appendix A.9: Emissions in Restricted Bands

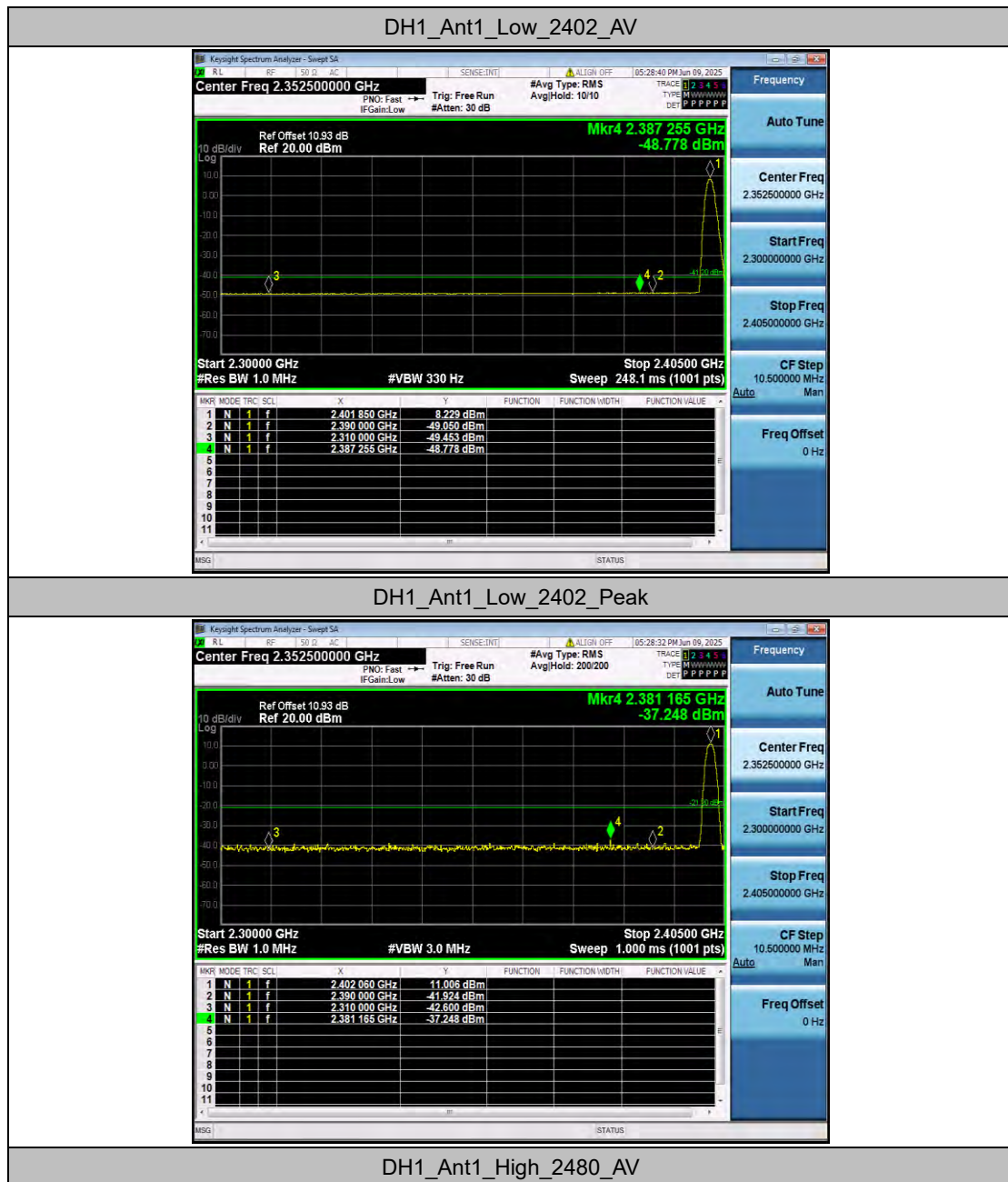
Test Result

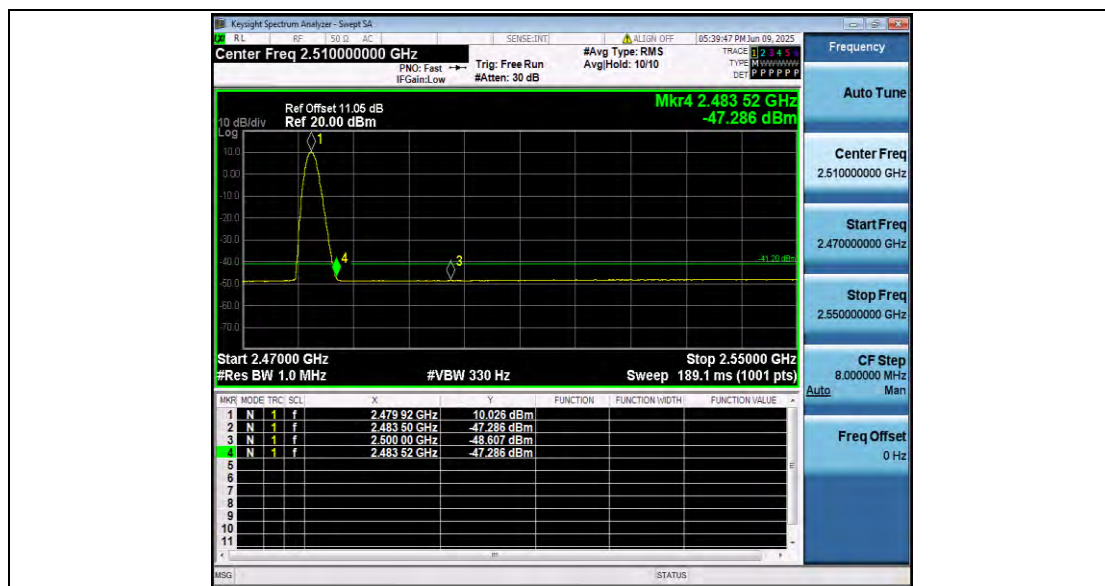
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.45	≤-41.20	45.75	≤54	PASS
				AV	2387.255	-48.78	≤-41.20	46.42	≤54	PASS
				AV	2390.000	-49.05	≤-41.20	46.15	≤54	PASS
				Peak	2310.000	-42.6	≤-21.20	52.60	≤74	PASS
				Peak	2381.165	-37.25	≤-21.20	57.95	≤74	PASS
				Peak	2390.000	-41.92	≤-21.20	53.28	≤74	PASS
		High	2480	AV	2483.500	-47.29	≤-41.20	47.91	≤54	PASS
				AV	2483.520	-47.29	≤-41.20	47.91	≤54	PASS
				AV	2500.000	-48.61	≤-41.20	46.59	≤54	PASS
				Peak	2483.500	-40.72	≤-21.20	54.48	≤74	PASS
				Peak	2484.880	-38.67	≤-21.20	56.53	≤74	PASS
				Peak	2500.000	-41.1	≤-21.20	54.10	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.41	≤-41.20	45.79	≤54	PASS
				AV	2389.250	-48.81	≤-41.20	46.39	≤54	PASS
				AV	2390.000	-48.91	≤-41.20	46.29	≤54	PASS
				Peak	2310.000	-42.14	≤-21.20	53.06	≤74	PASS
				Peak	2383.685	-38.5	≤-21.20	56.70	≤74	PASS
				Peak	2390.000	-41.17	≤-21.20	54.03	≤74	PASS
		High	2480	AV	2483.500	-47.07	≤-41.20	48.13	≤54	PASS
				AV	2483.520	-47.07	≤-41.20	48.13	≤54	PASS
				AV	2500.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2483.500	-41.54	≤-21.20	53.66	≤74	PASS
				Peak	2485.840	-38.72	≤-21.20	56.48	≤74	PASS
				Peak	2500.000	-39.64	≤-21.20	55.56	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.33	≤-41.20	45.87	≤54	PASS
				AV	2380.745	-48.86	≤-41.20	46.34	≤54	PASS
				AV	2390.000	-48.93	≤-41.20	46.27	≤54	PASS
				Peak	2310.000	-40.42	≤-21.20	54.78	≤74	PASS
				Peak	2387.045	-38.83	≤-21.20	56.37	≤74	PASS
				Peak	2390.000	-40.94	≤-21.20	54.26	≤74	PASS
		High	2480	AV	2483.500	-47.23	≤-41.20	47.97	≤54	PASS
				AV	2483.520	-47.23	≤-41.20	47.97	≤54	PASS
				AV	2500.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2483.500	-41.16	≤-21.20	54.04	≤74	PASS
				Peak	2498.960	-38.93	≤-21.20	56.27	≤74	PASS
				Peak	2500.000	-41.32	≤-21.20	53.88	≤74	PASS

Note:

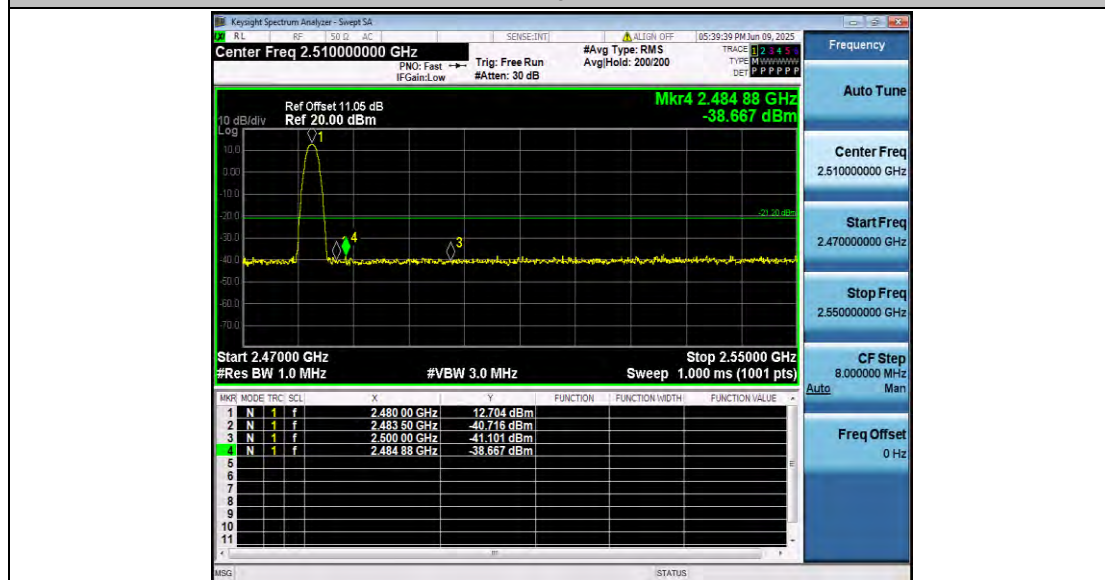
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

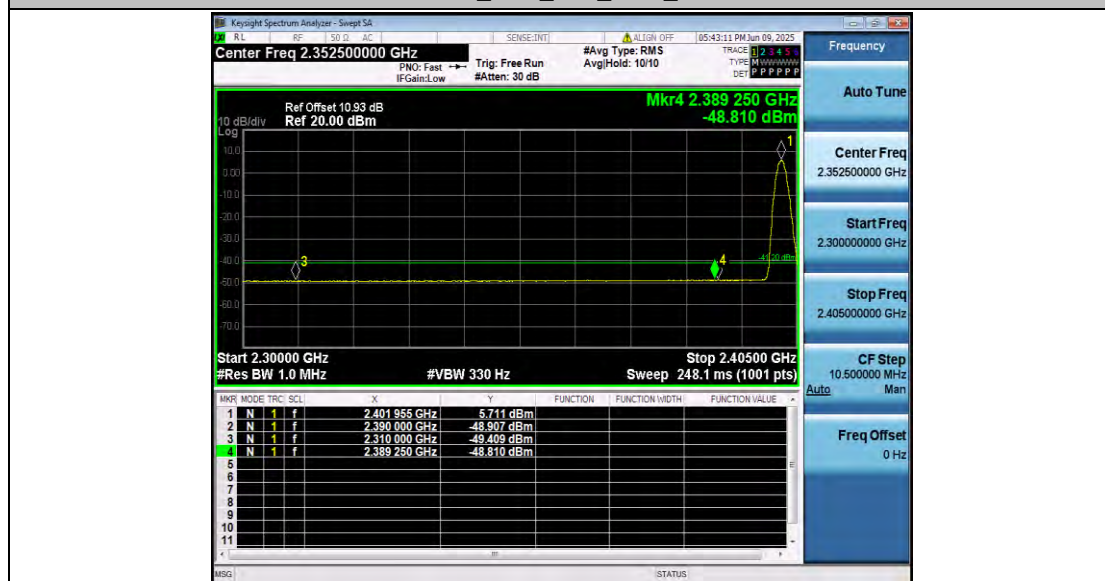




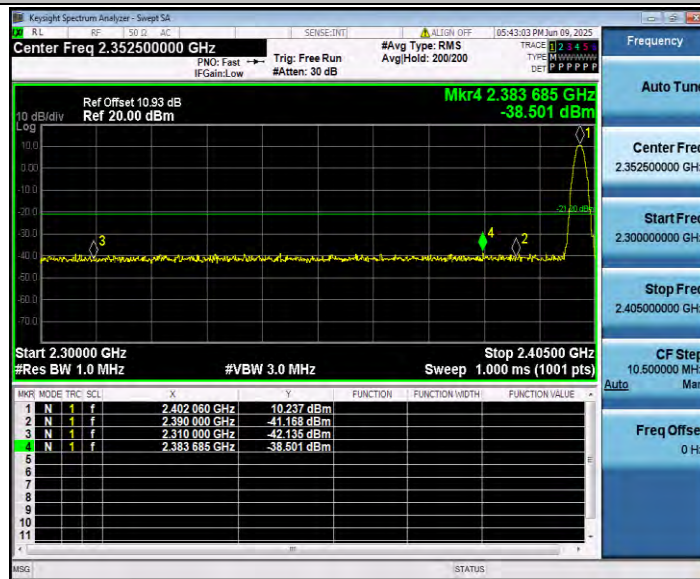
DH1_Ant1_High_2480_Peak



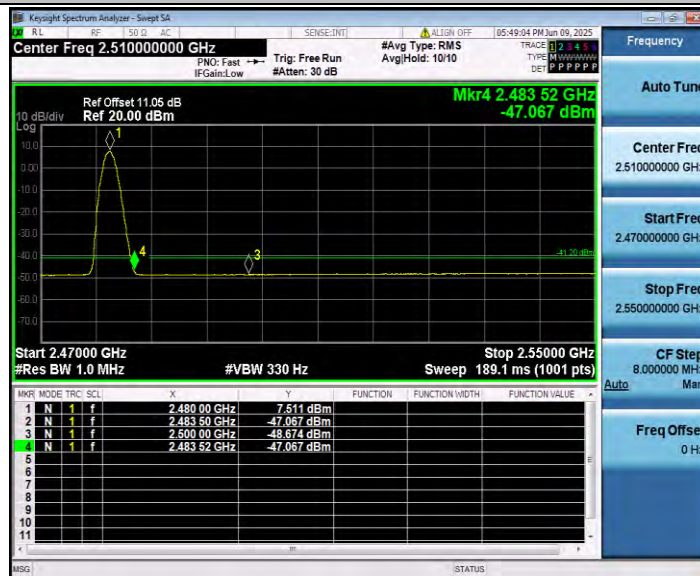
2DH1_Ant1_Low_2402_AV



2DH1_Ant1_Low_2402_Peak



2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak

