

Case No. : <u>GTS20250310021-1-11</u>	
Ambient Condition: <u>22</u> °C, <u>51</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.5.15</u>	Test Engineer: <u>Evan ouyang</u>

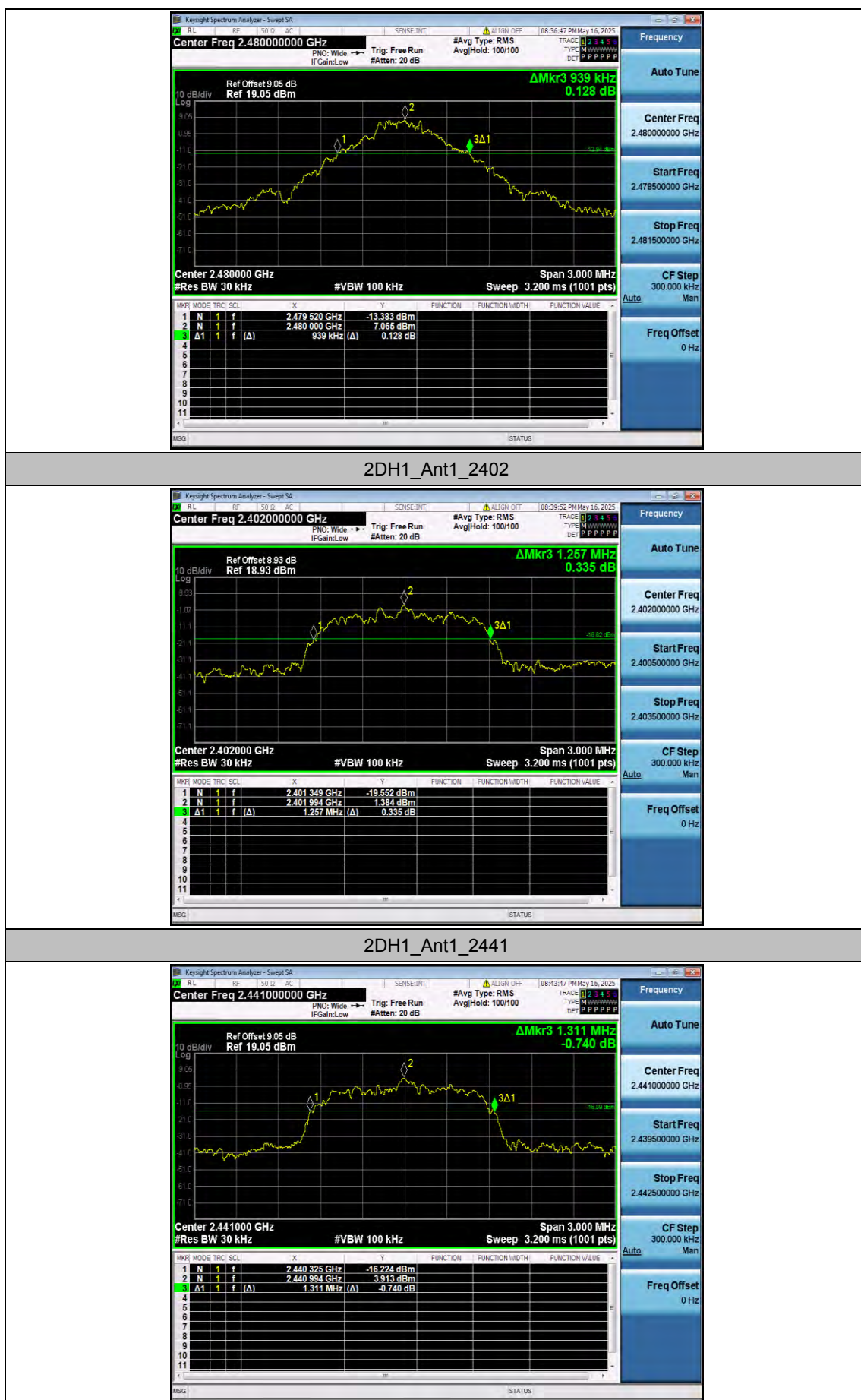
Appendix A.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.936	2401.523	2402.459	---	---
		2441	0.900	2440.520	2441.420	---	---
		2480	0.939	2479.520	2480.459	---	---
2DH1	Ant1	2402	1.257	2401.349	2402.606	---	---
		2441	1.311	2440.325	2441.636	---	---
		2480	1.299	2479.322	2480.621	---	---
3DH1	Ant1	2402	1.257	2401.373	2402.630	---	---
		2441	1.257	2440.367	2441.624	---	---
		2480	1.293	2479.337	2480.630	---	---

Test Graphs





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	0.85479	2401.5602	2402.4150	---	---
		2441	0.83114	2440.5737	2441.4049	---	---
		2480	0.82593	2479.5805	2480.4064	---	---
2DH1	Ant1	2402	1.1922	2401.3947	2402.5869	---	---
		2441	1.1812	2440.3918	2441.5730	---	---
		2480	1.1813	2479.3891	2480.5704	---	---
3DH1	Ant1	2402	1.1694	2401.4178	2402.5872	---	---
		2441	1.1630	2440.4195	2441.5825	---	---
		2480	1.1708	2479.4132	2480.5840	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



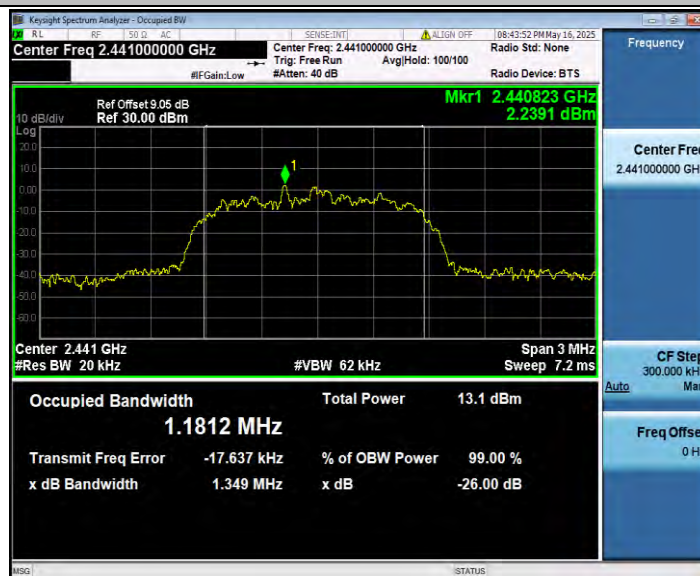
DH1_Ant1_2480



2DH1_Ant1_2402



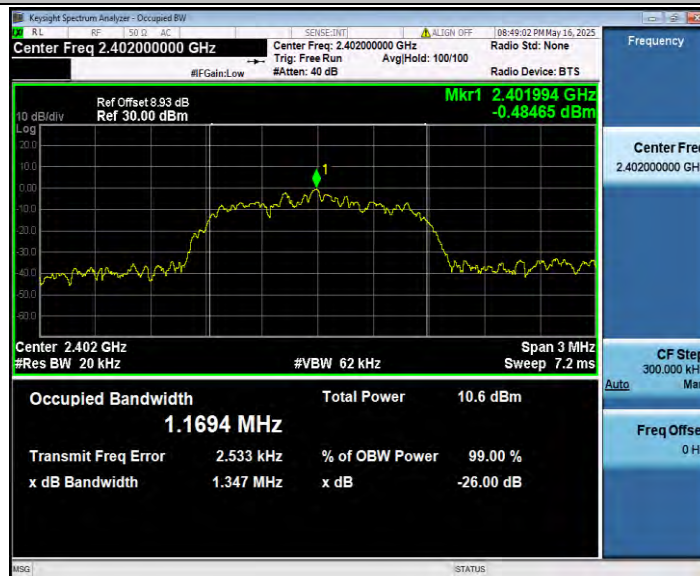
2DH1_Ant1_2441



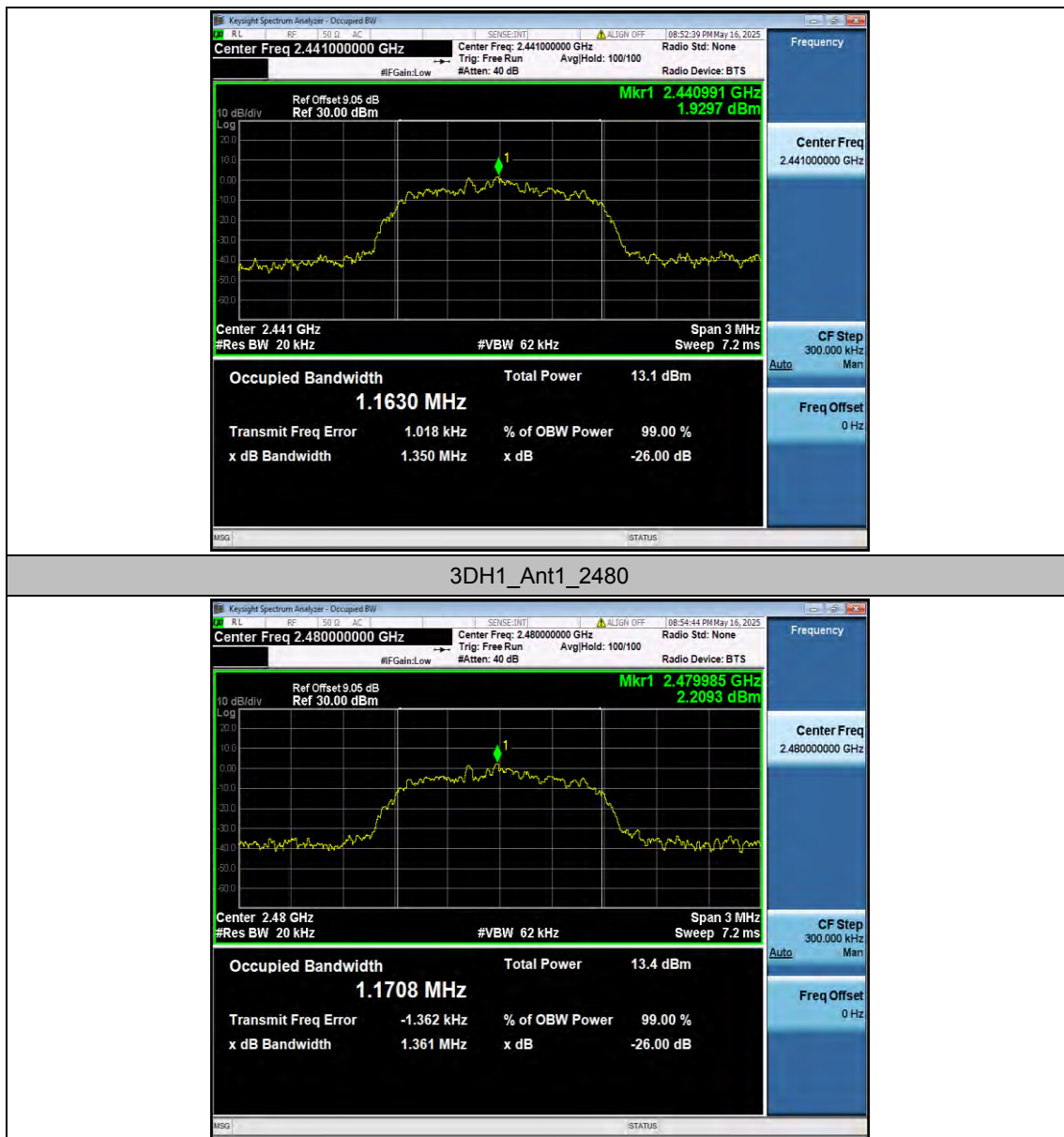
2DH1_Ant1_2480



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	9.97	≤ 20.97	PASS
		2441	10.05	≤ 20.97	PASS
		2480	10.12	≤ 20.97	PASS
2DH1	Ant1	2402	9.27	≤ 20.97	PASS
		2441	9.45	≤ 20.97	PASS
		2480	9.57	≤ 20.97	PASS
3DH1	Ant1	2402	9.53	≤ 20.97	PASS
		2441	9.56	≤ 20.97	PASS
		2480	9.73	≤ 20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.698	≥ 0.626	PASS
		Hop_2441	1.316	≥ 0.626	PASS
		Hop_2480	1.188	≥ 0.626	PASS
2DH1	Ant1	Hop_2402	1.016	≥ 0.874	PASS
		Hop_2441	1.02	≥ 0.874	PASS
		Hop_2480	0.978	≥ 0.874	PASS
3DH1	Ant1	Hop_2402	1.008	≥ 0.862	PASS
		Hop_2441	1.02	≥ 0.862	PASS
		Hop_2480	1.006	≥ 0.862	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



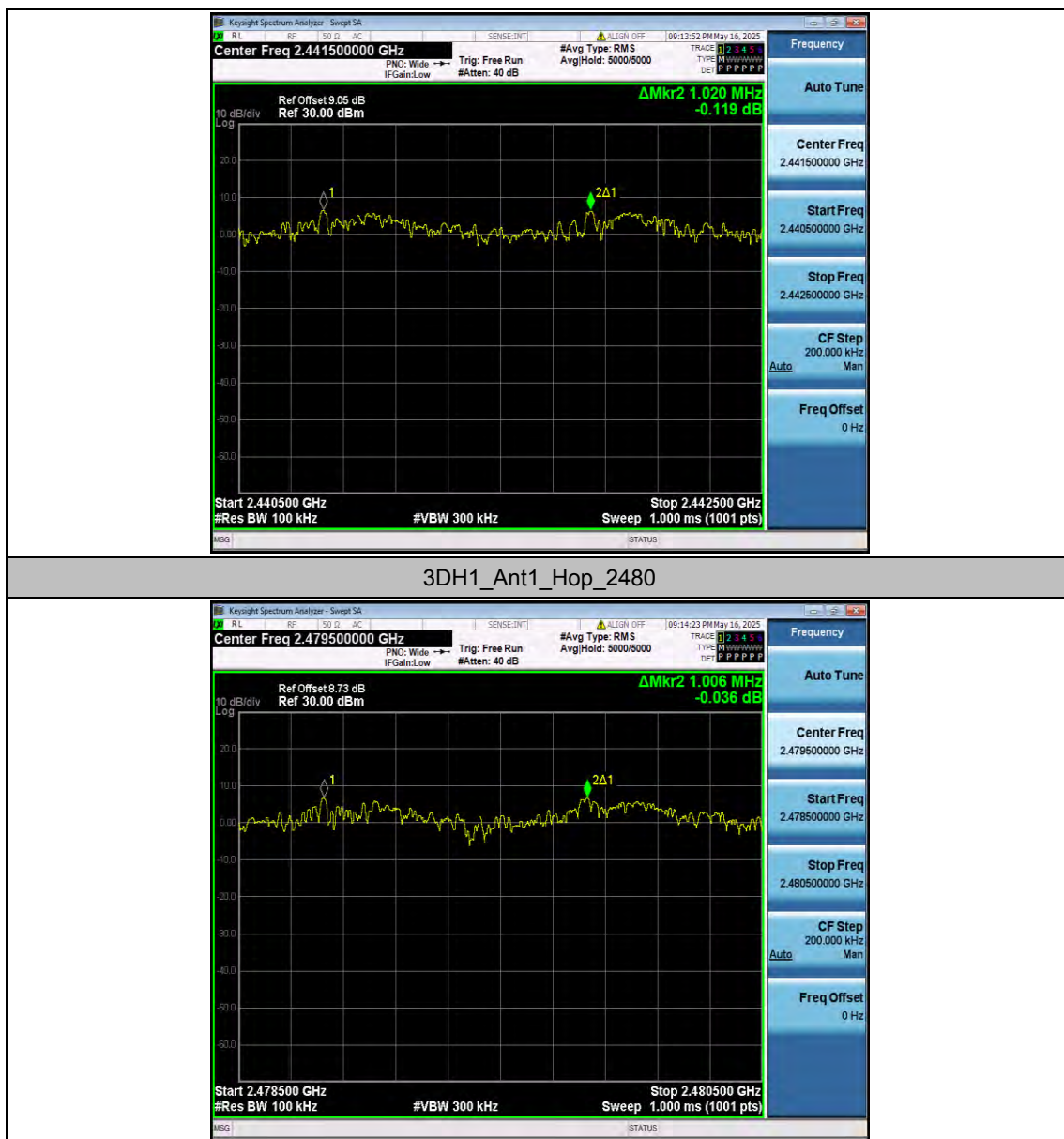
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

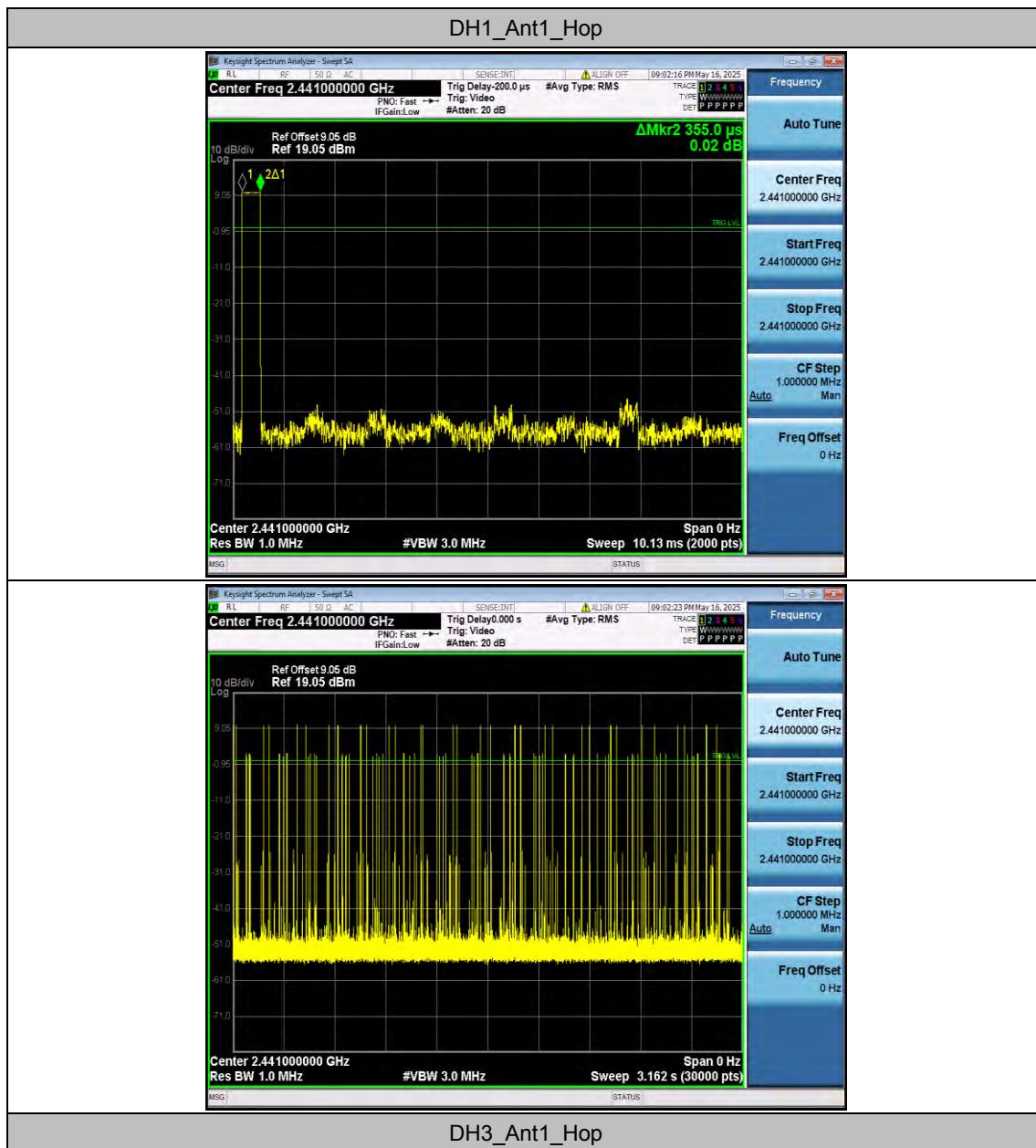


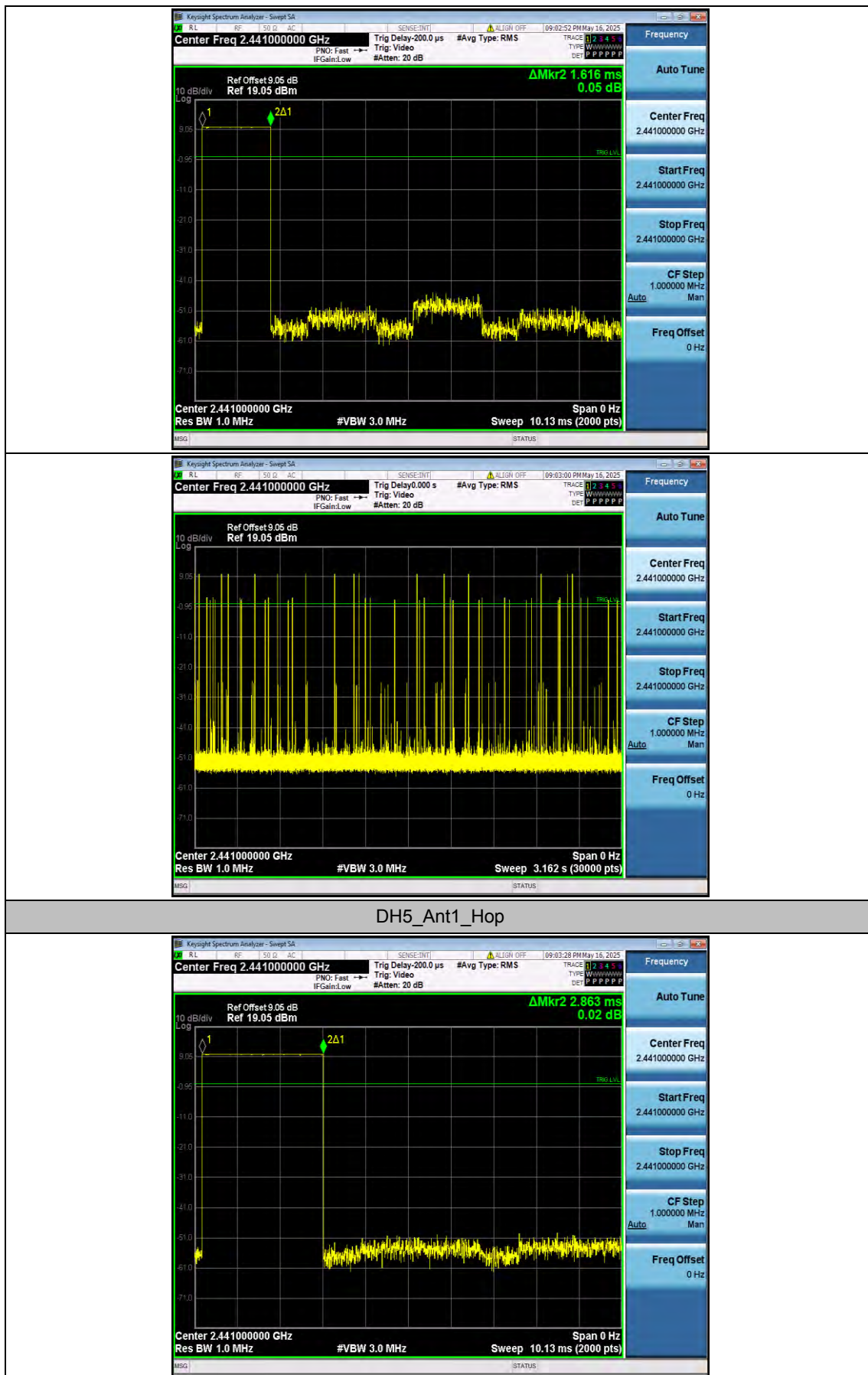
Appendix A.5: Time of occupancy

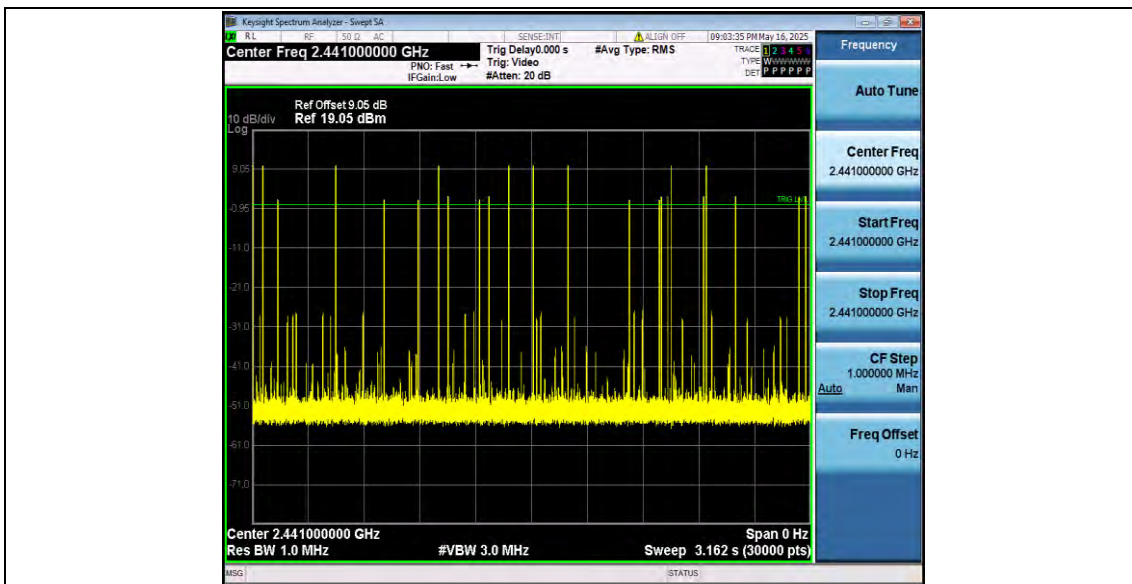
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.355	320	0.114	≤0.4	PASS
DH3	Ant1	Hop	1.616	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.863	90	0.258	≤0.4	PASS
2DH1	Ant1	Hop	0.355	330	0.117	≤0.4	PASS
2DH3	Ant1	Hop	1.616	150	0.242	≤0.4	PASS
2DH5	Ant1	Hop	2.863	100	0.286	≤0.4	PASS
3DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.616	170	0.275	≤0.4	PASS
3DH5	Ant1	Hop	2.863	130	0.372	≤0.4	PASS

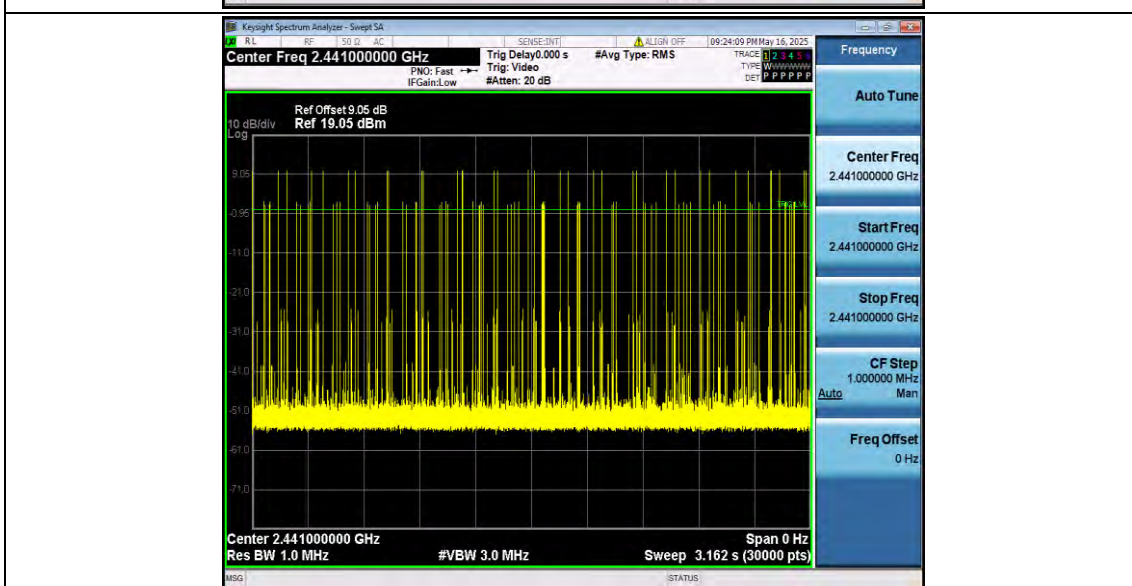
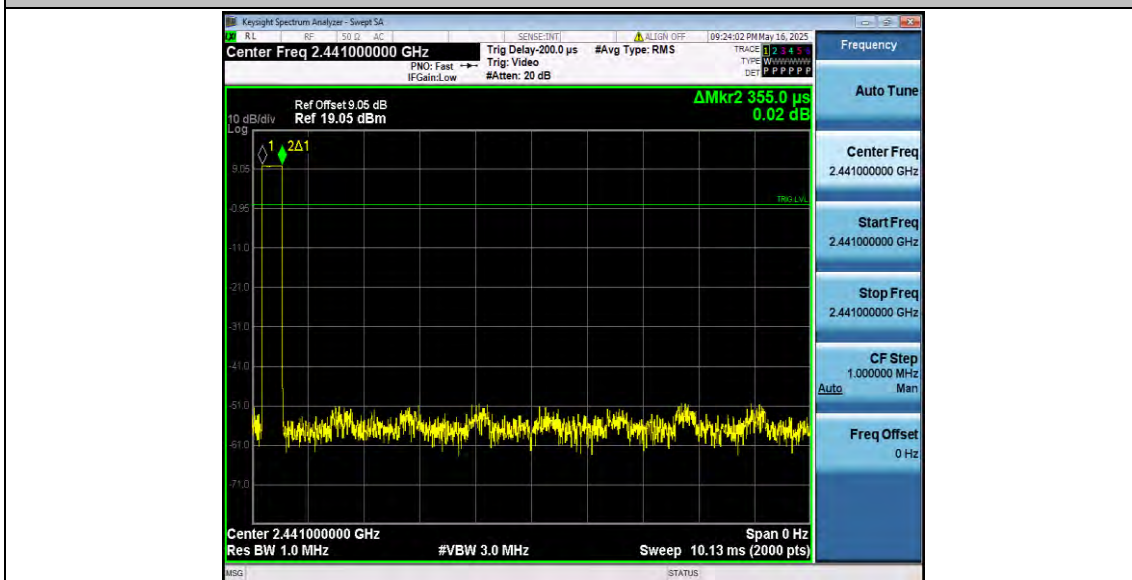
Test Graphs



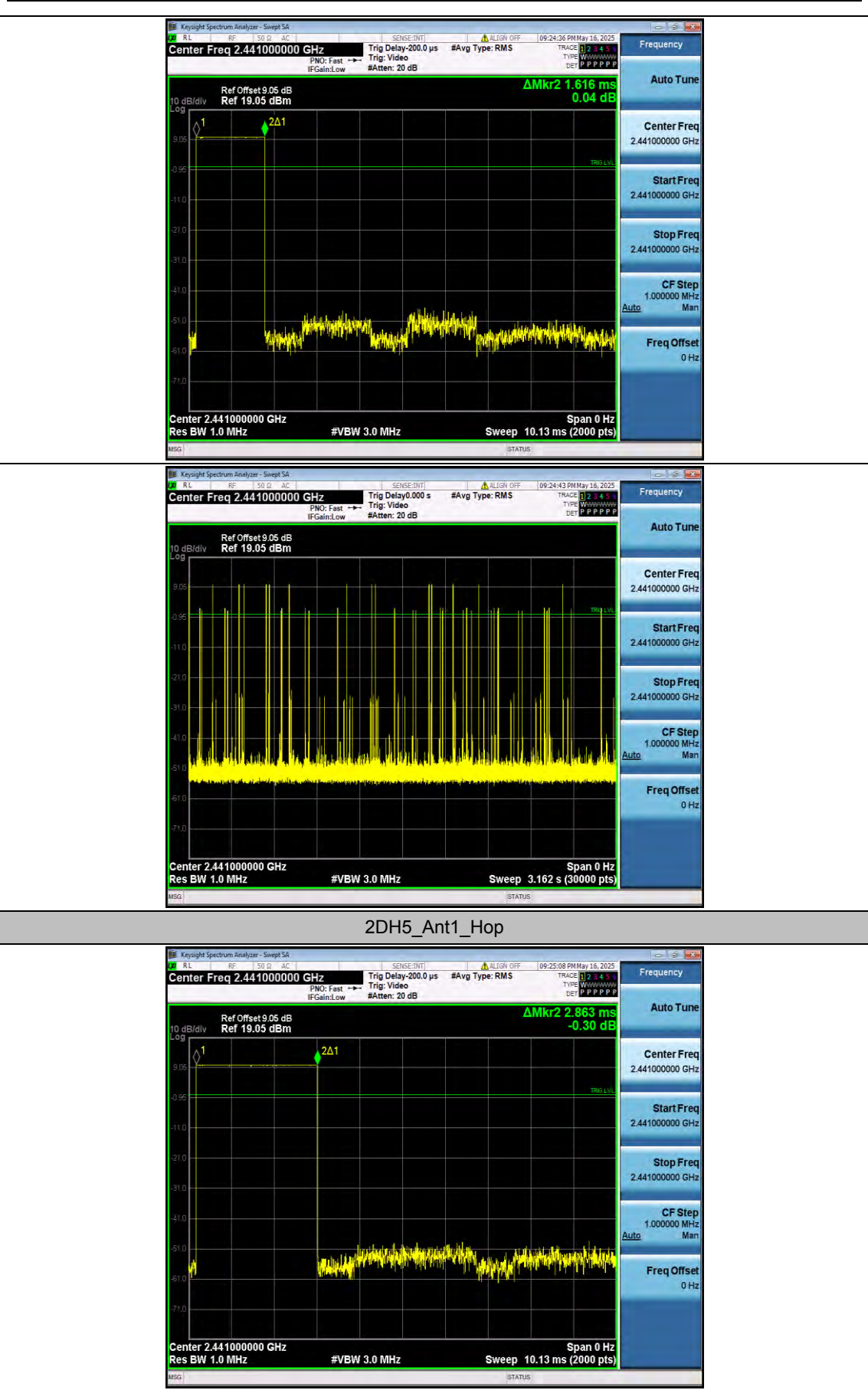


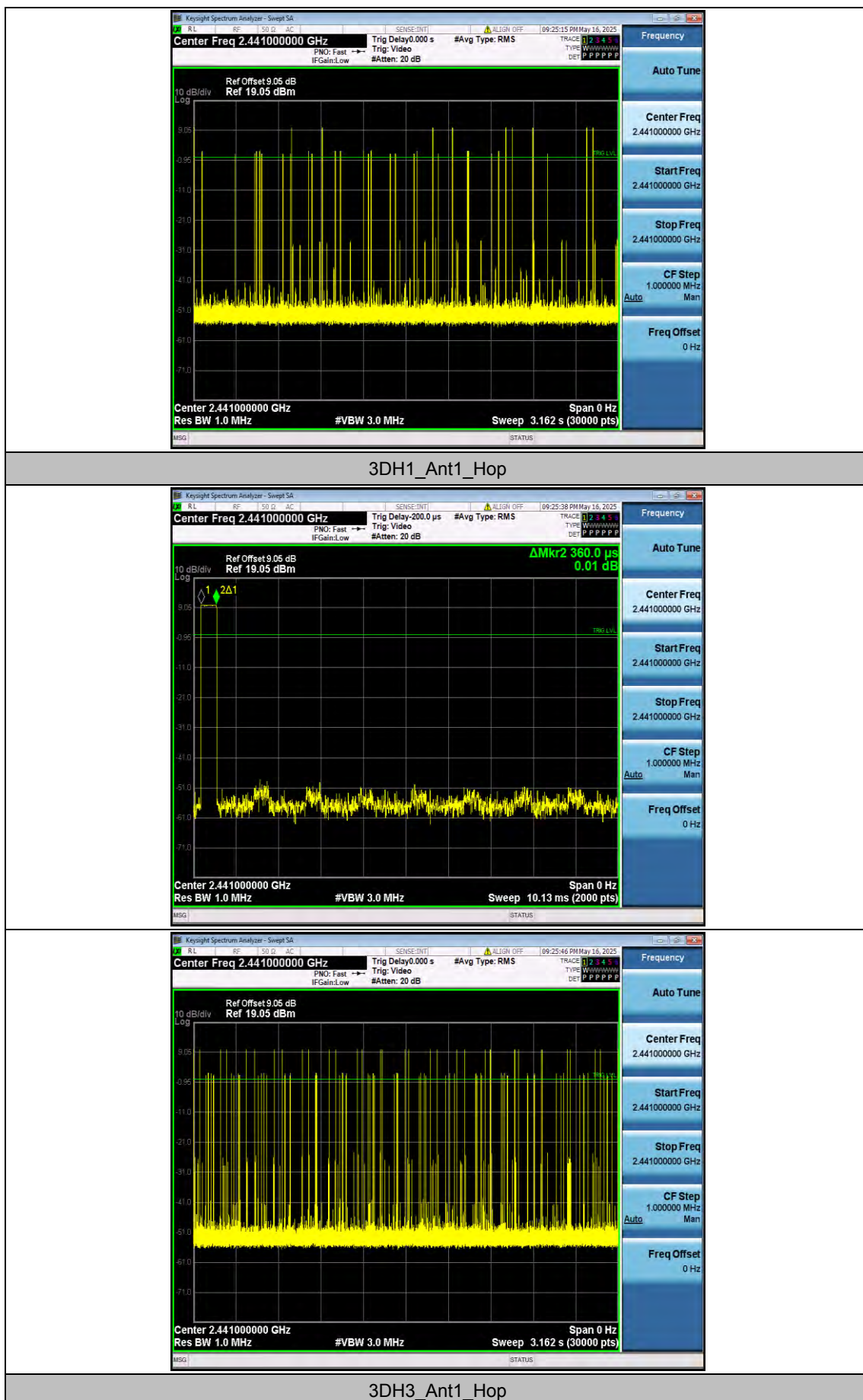


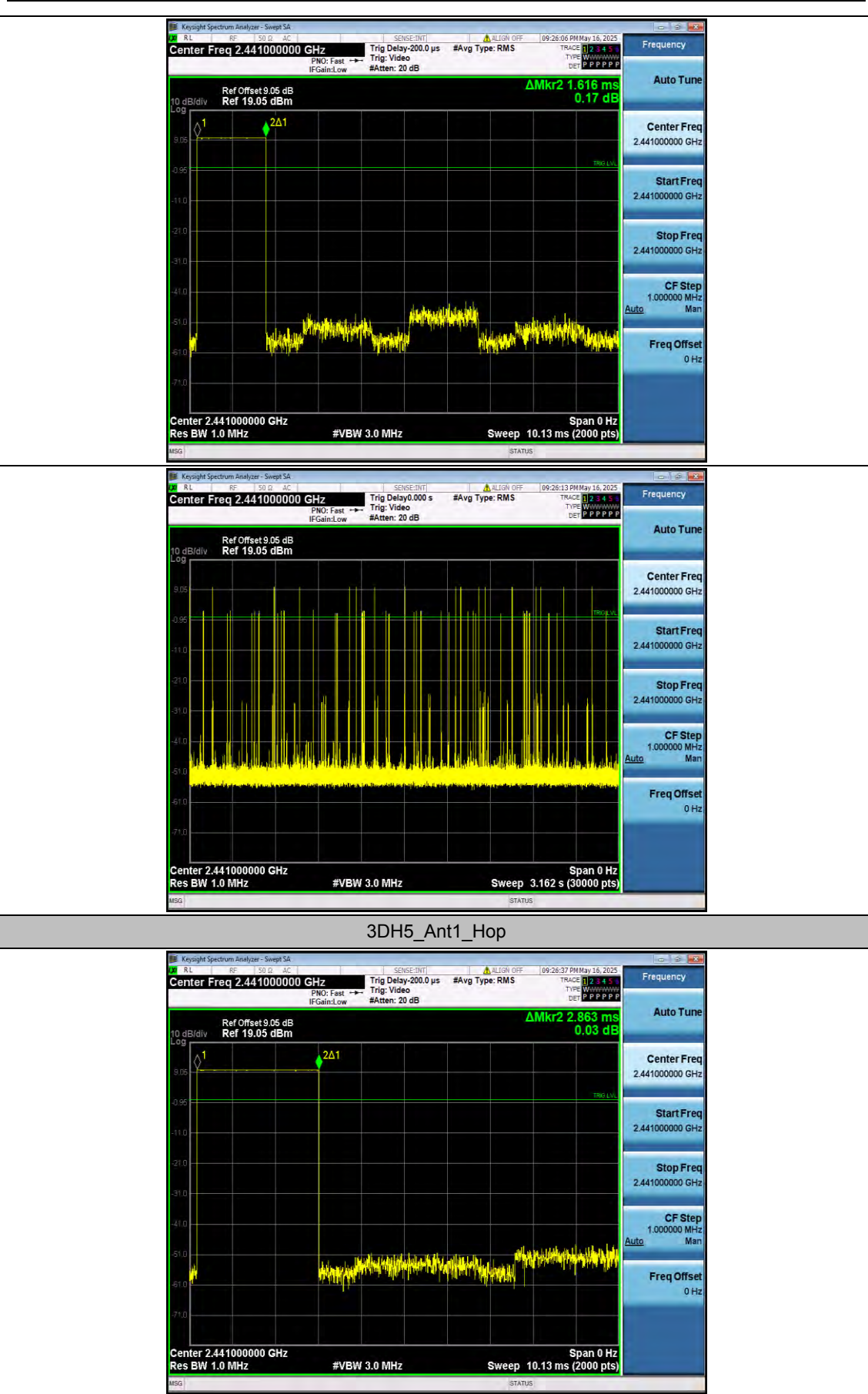
2DH1_Ant1_Hop

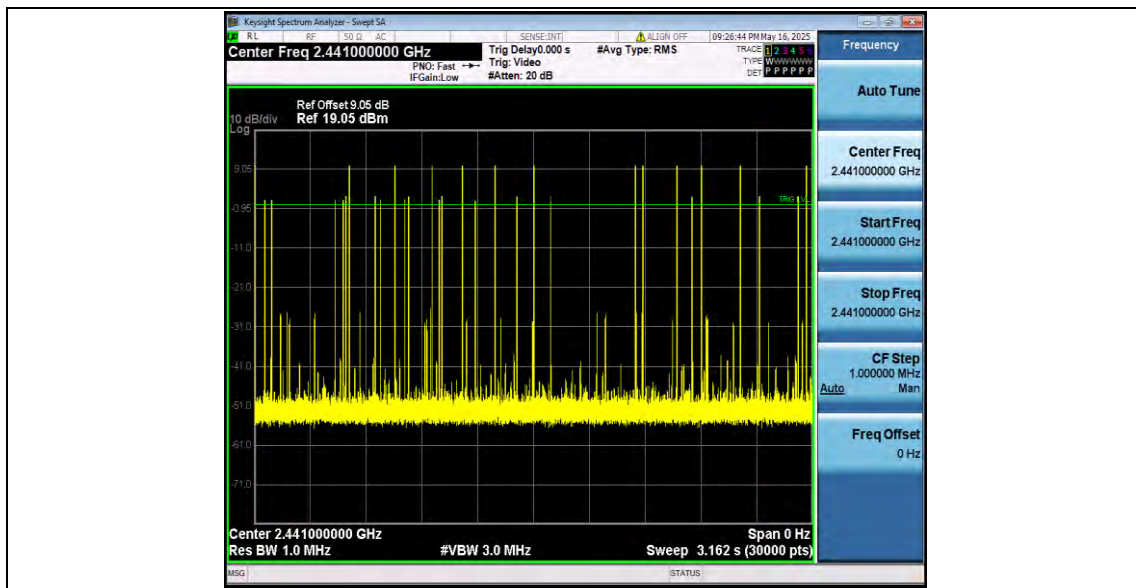


2DH3_Ant1_Hop







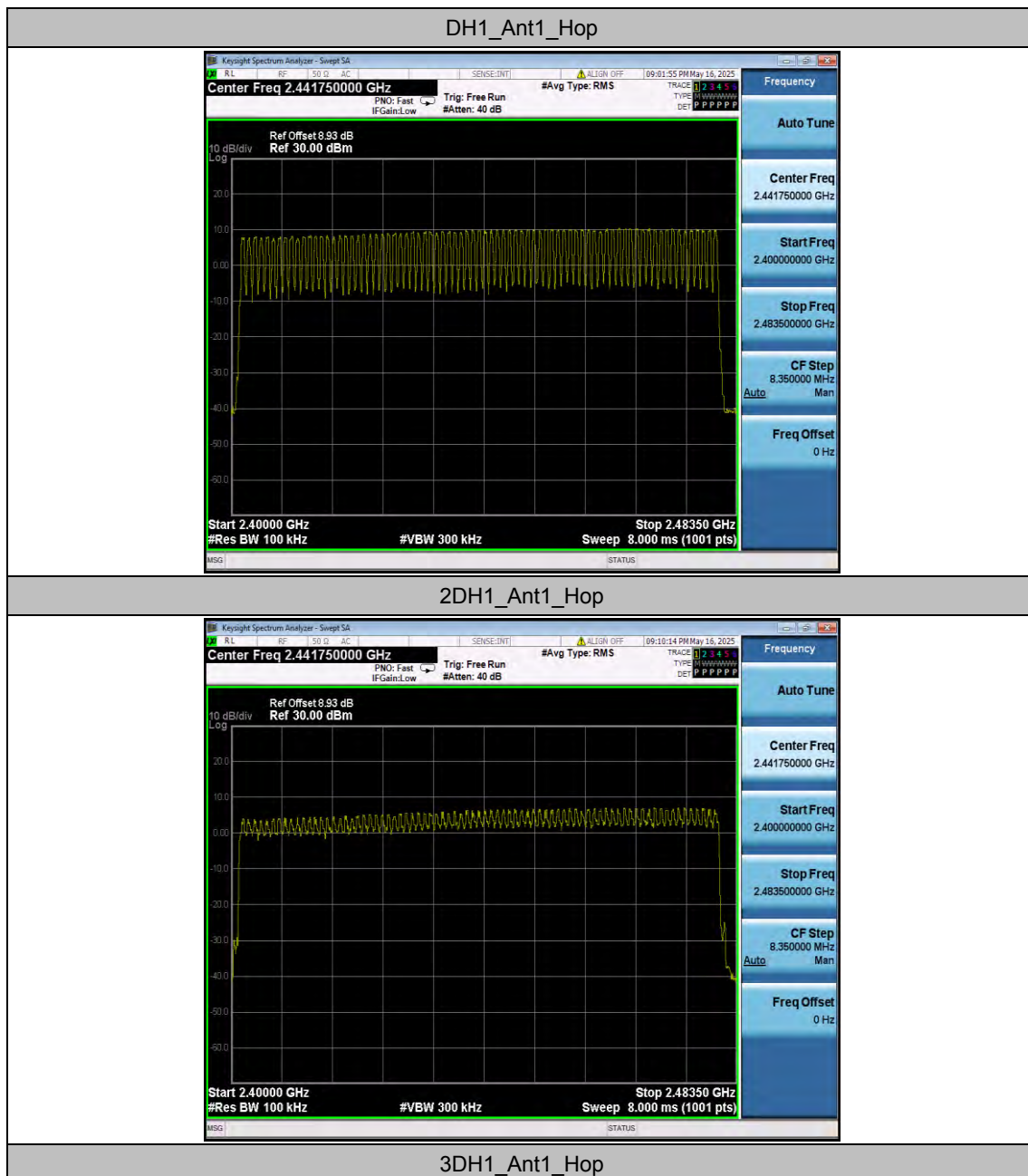


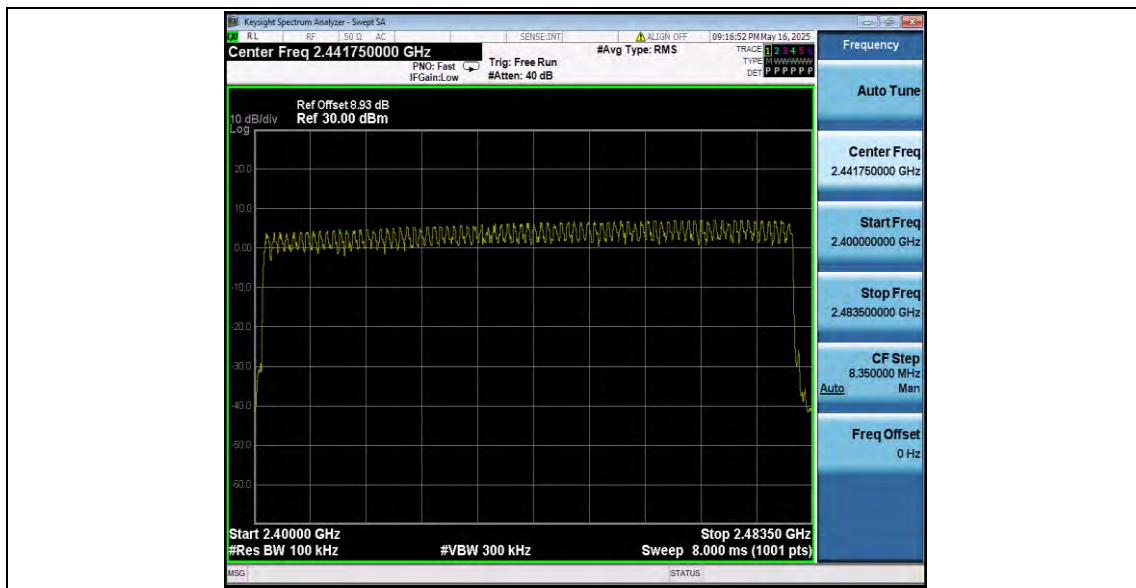
Appendix A.6: Number of hopping channels

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





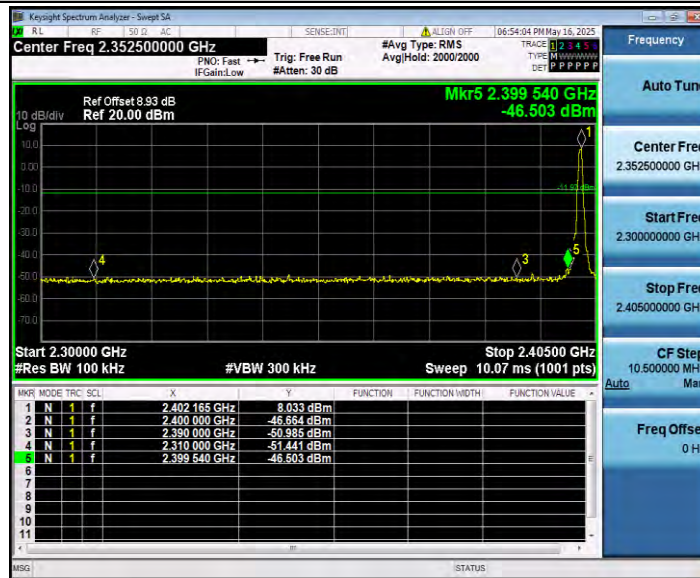
Appendix A.7: Band edge measurements

Test Result

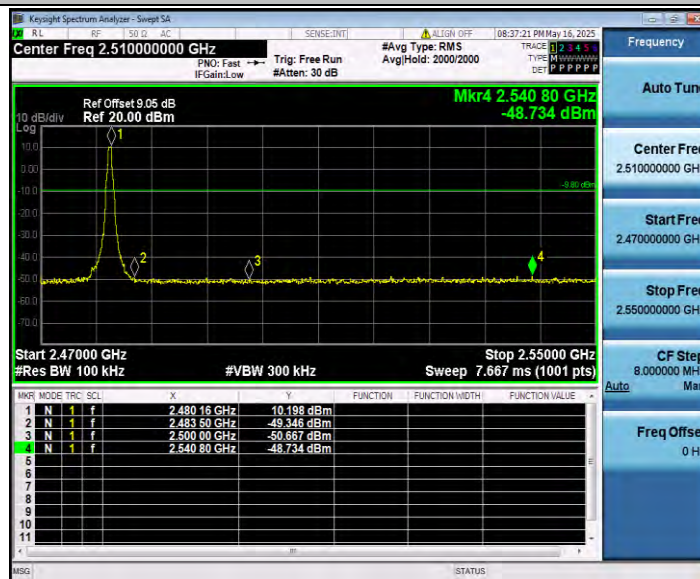
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.03	-46.5	≤ -11.97	PASS
		High	2480	10.20	-48.73	≤ -9.8	PASS
		Low	Hop_2402	7.31	-49.23	≤ -12.69	PASS
		High	Hop_2480	10.14	-49	≤ -9.86	PASS
2DH1	Ant1	Low	2402	3.93	-38.7	≤ -16.07	PASS
		High	2480	6.98	-44.25	≤ -13.02	PASS
		Low	Hop_2402	3.91	-44.95	≤ -16.1	PASS
		High	Hop_2480	7.14	-48.54	≤ -12.86	PASS
3DH1	Ant1	Low	2402	4.14	-38.48	≤ -15.87	PASS
		High	2480	7.09	-43.2	≤ -12.91	PASS
		Low	Hop_2402	3.93	-43.82	≤ -16.07	PASS
		High	Hop_2480	6.21	-46.19	≤ -13.79	PASS

Test Graphs

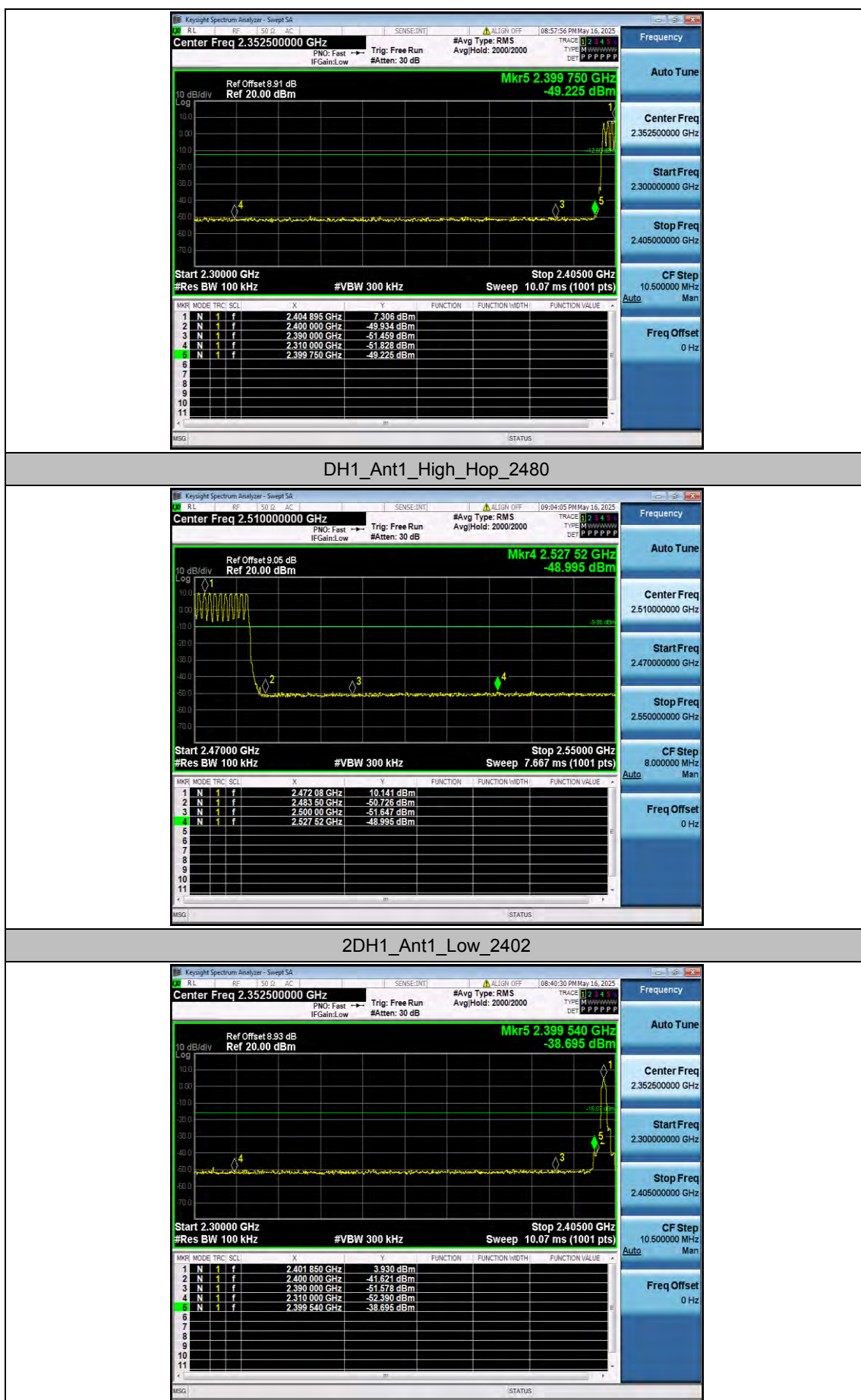
DH1_Ant1_Low_2402



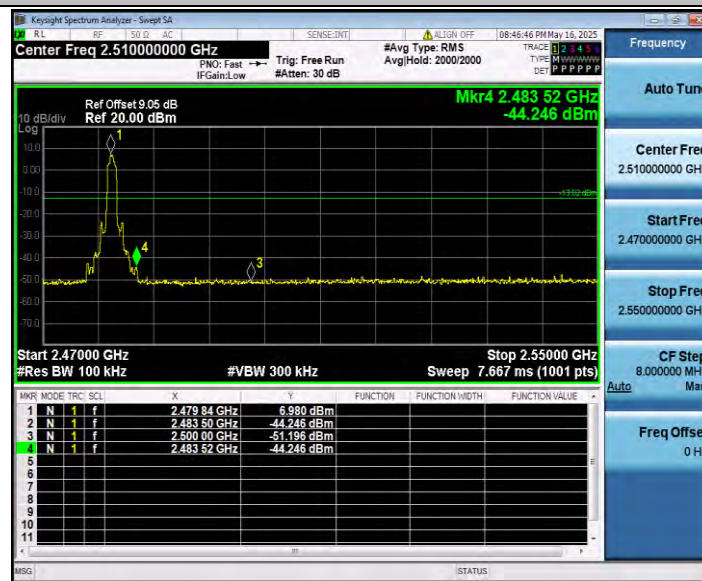
DH1_Ant1_High_2480



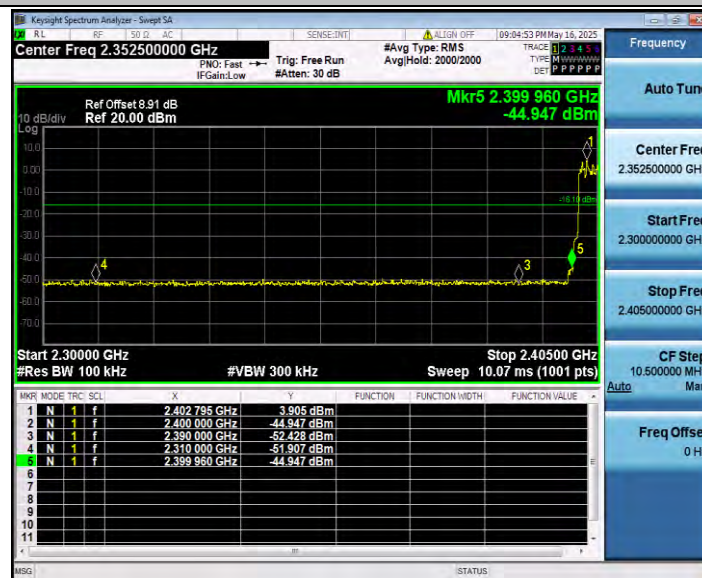
DH1_Ant1_Low_Hop_2402



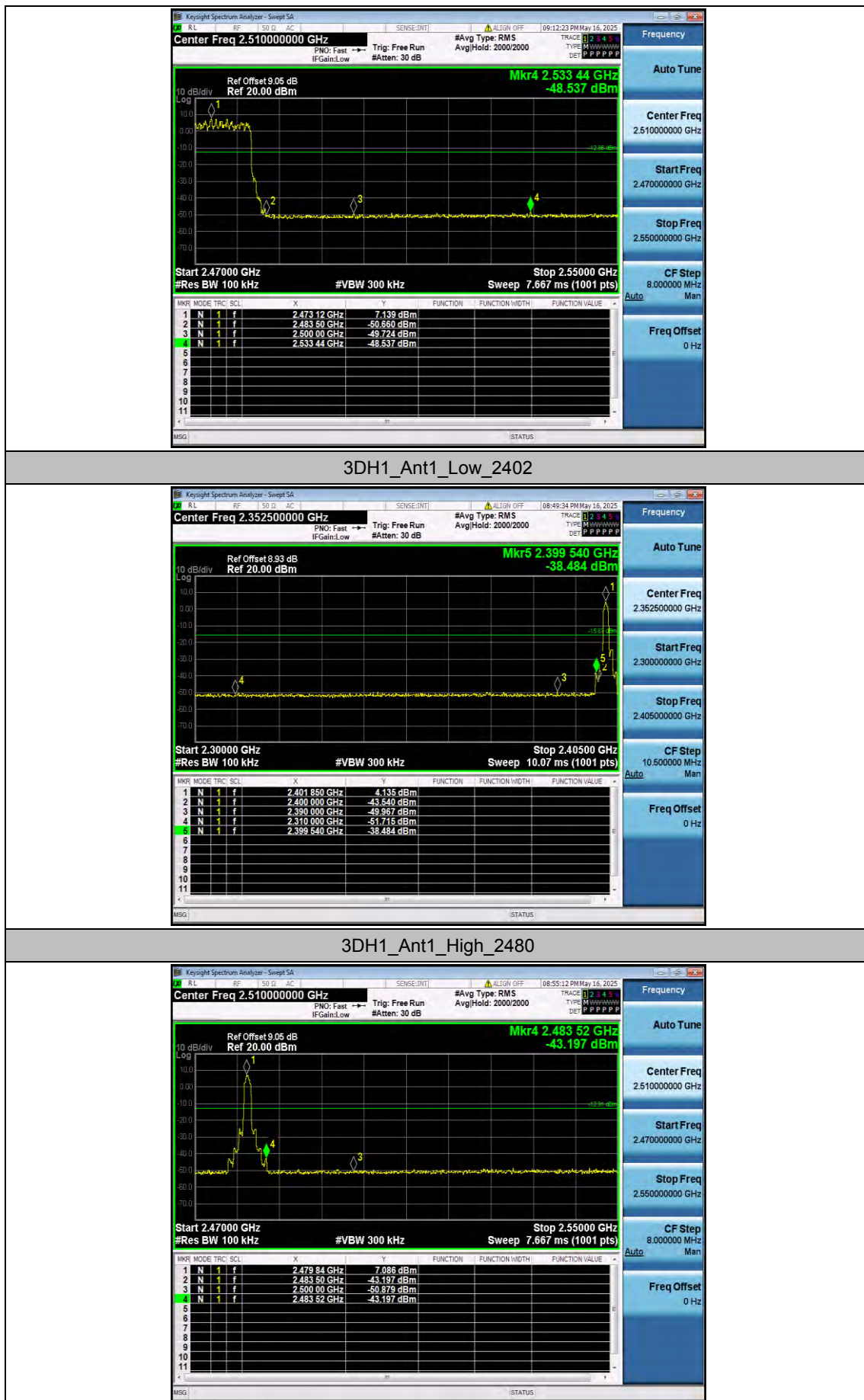
2DH1_Ant1_High_2480



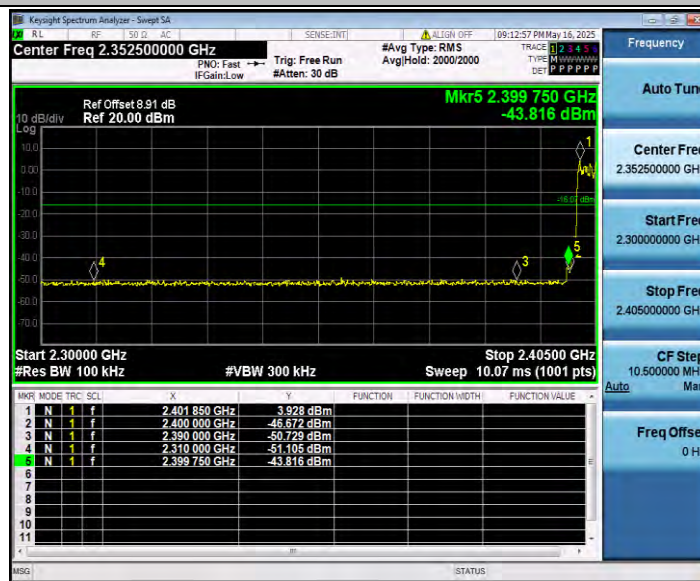
2DH1_Ant1_Low_Hop_2402



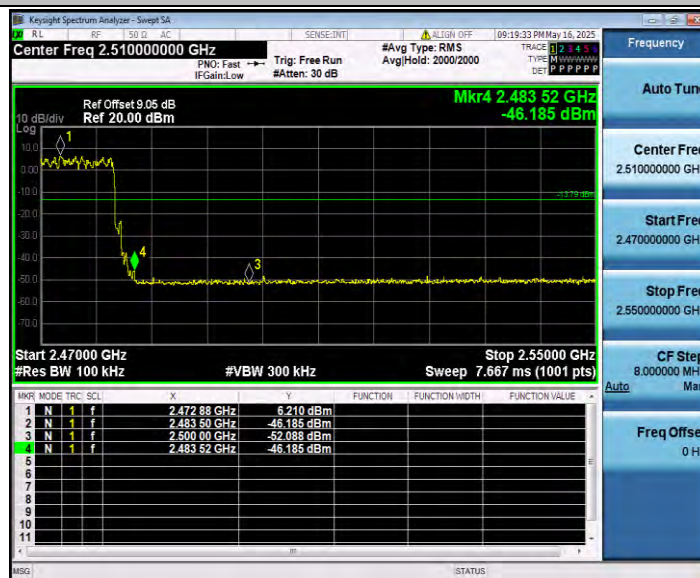
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

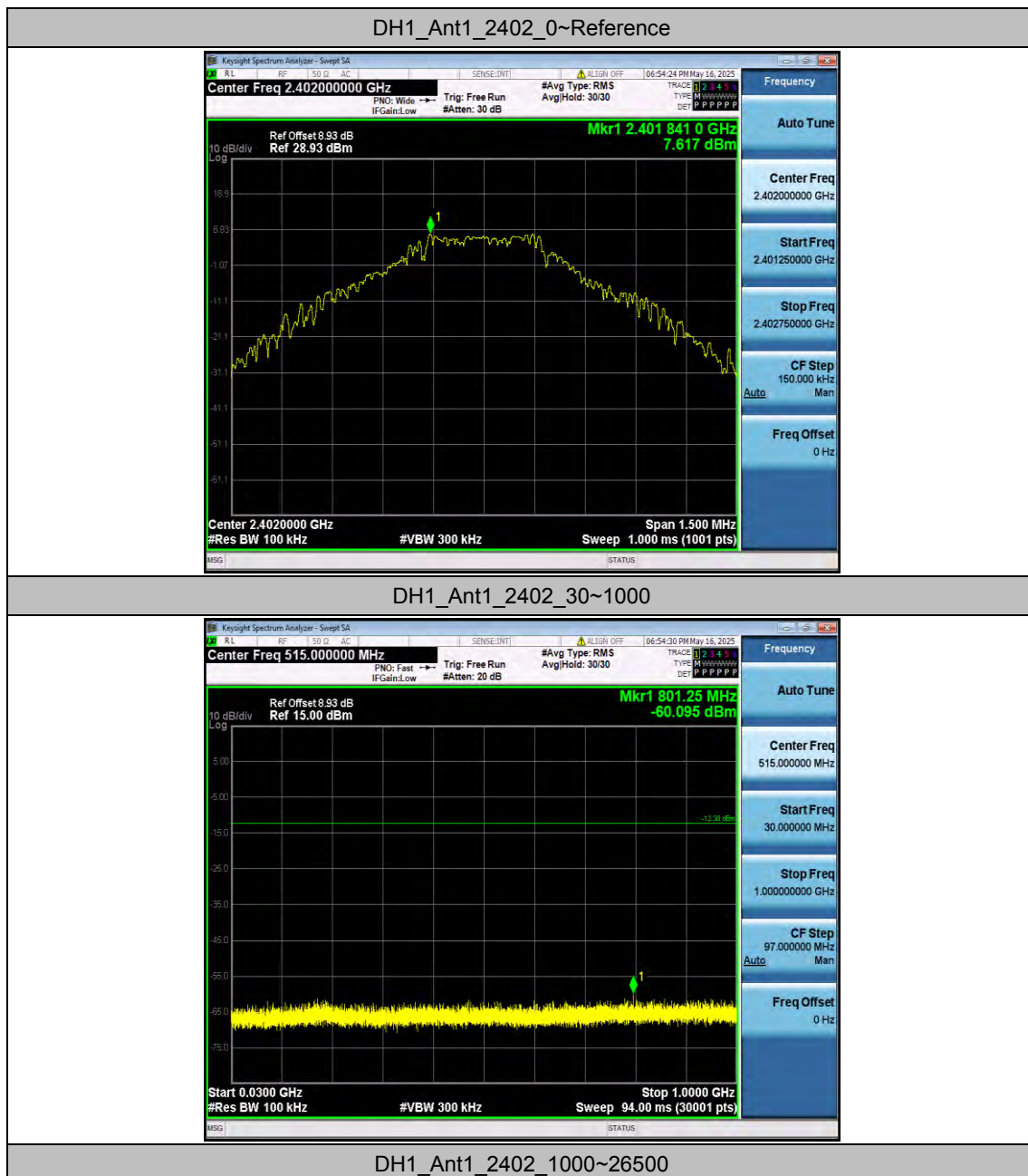


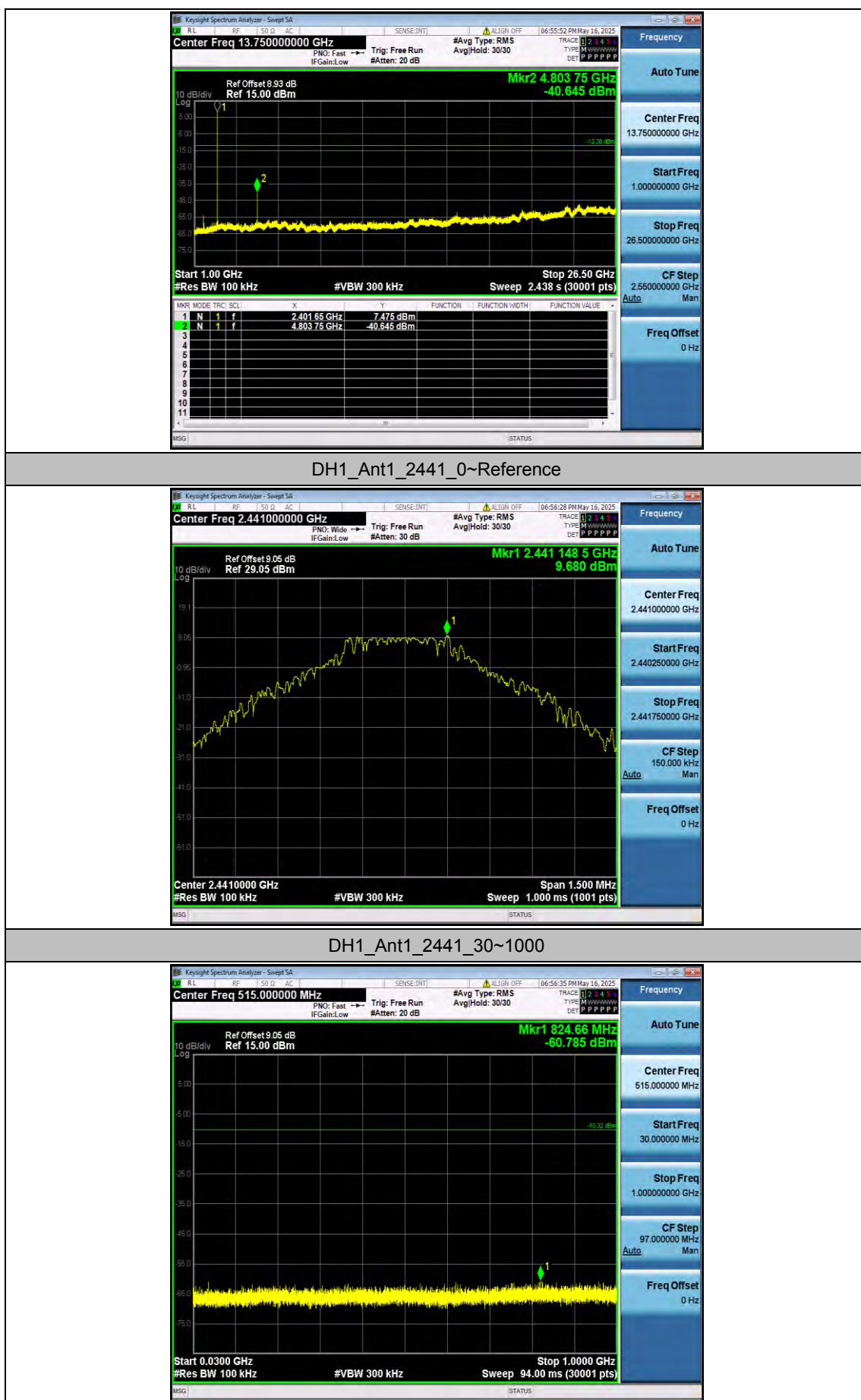
Appendix A.8: Conducted Spurious Emission

Test Result

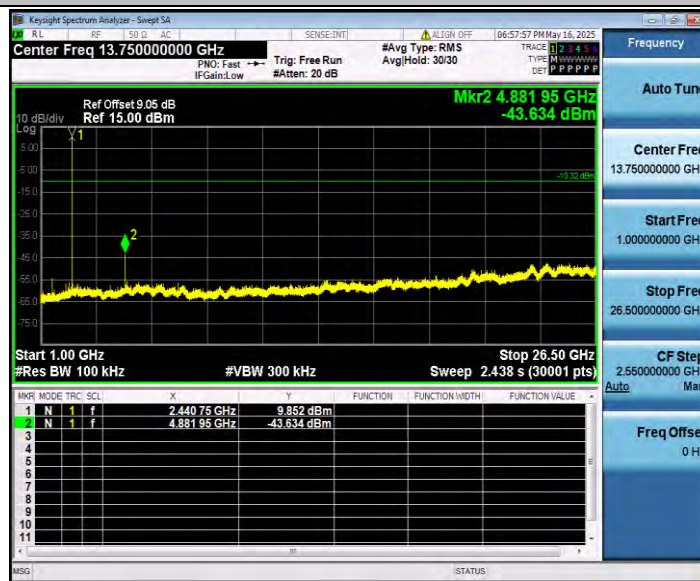
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.62	7.62	---	PASS
			30~1000	7.62	-60.1	≤ -12.38	PASS
			1000~26500	7.62	-40.65	≤ -12.38	PASS
		2441	Reference	9.68	9.68	---	PASS
			30~1000	9.68	-60.79	≤ -10.32	PASS
			1000~26500	9.68	-43.63	≤ -10.32	PASS
		2480	Reference	9.93	9.93	---	PASS
			30~1000	9.93	-60.34	≤ -10.07	PASS
			1000~26500	9.93	-47.34	≤ -10.07	PASS
2DH1	Ant1	2402	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-61.01	≤ -16.51	PASS
			1000~26500	3.49	-42.17	≤ -16.51	PASS
		2441	Reference	6.33	6.33	---	PASS
			30~1000	6.33	-60.39	≤ -13.67	PASS
			1000~26500	6.33	-45.48	≤ -13.67	PASS
		2480	Reference	6.65	6.65	---	PASS
			30~1000	6.65	-60.12	≤ -13.35	PASS
			1000~26500	6.65	-47.32	≤ -13.35	PASS
3DH1	Ant1	2402	Reference	3.17	3.17	---	PASS
			30~1000	3.17	-60.44	≤ -16.83	PASS
			1000~26500	3.17	-44.23	≤ -16.83	PASS
		2441	Reference	6.33	6.33	---	PASS
			30~1000	6.33	-59.87	≤ -13.67	PASS
			1000~26500	6.33	-43.97	≤ -13.67	PASS
		2480	Reference	6.59	6.59	---	PASS
			30~1000	6.59	-60.19	≤ -13.41	PASS
			1000~26500	6.59	-46.99	≤ -13.41	PASS

Test Graphs





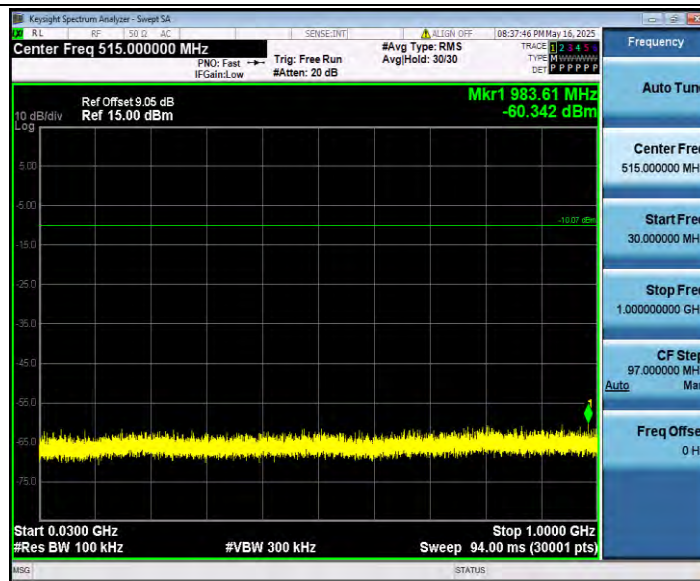
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



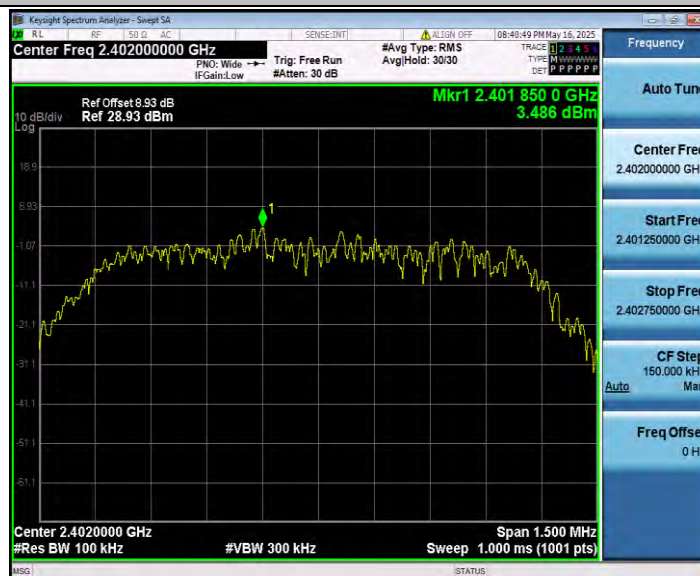
DH1_Ant1_2480_30~1000

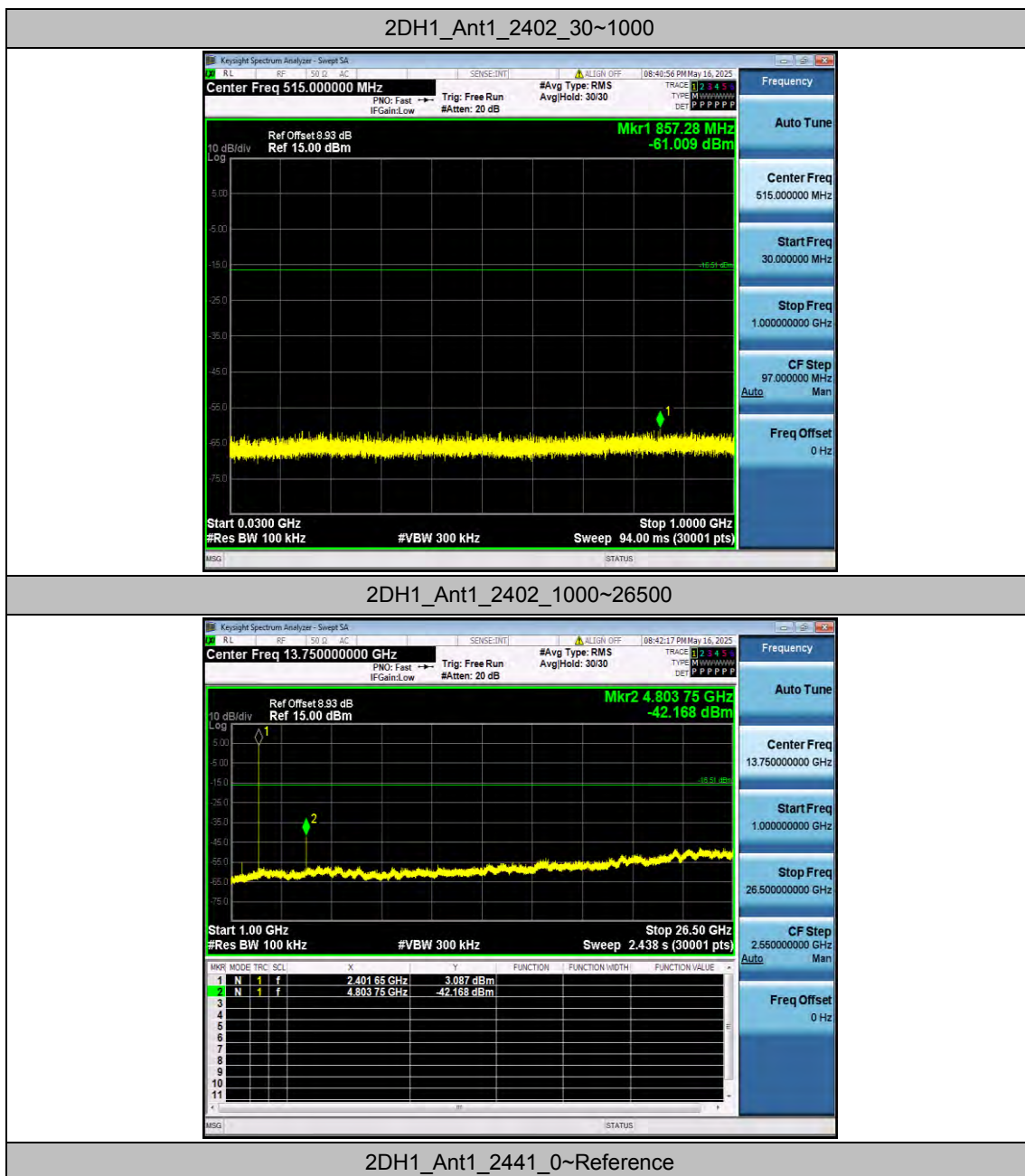


DH1_Ant1_2480_1000~26500



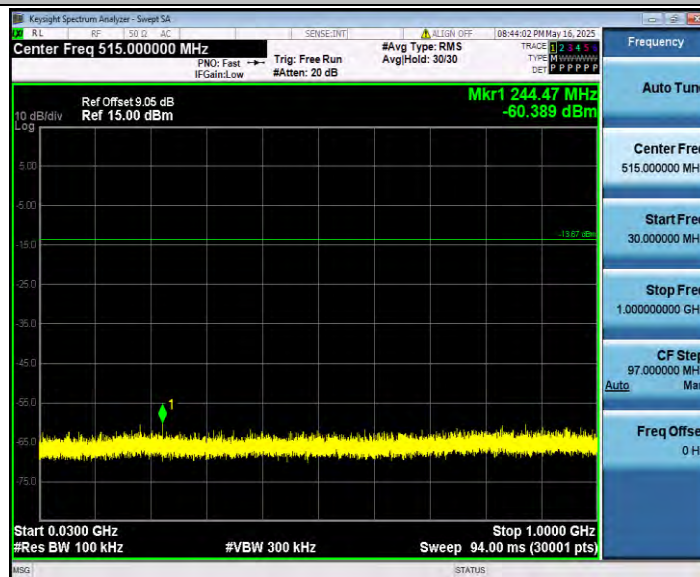
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



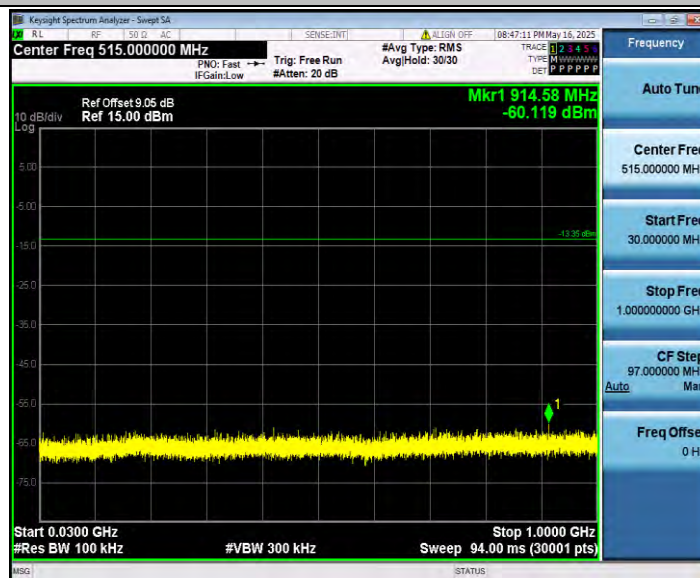
2DH1_Ant1_2441_1000~26500



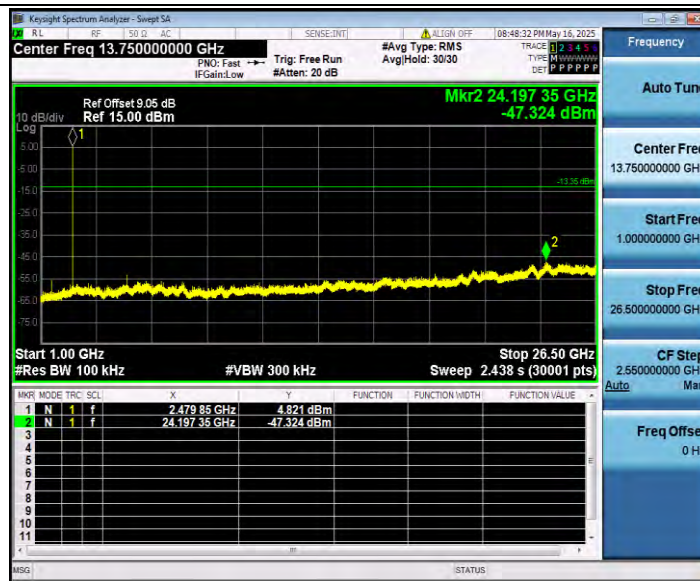
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



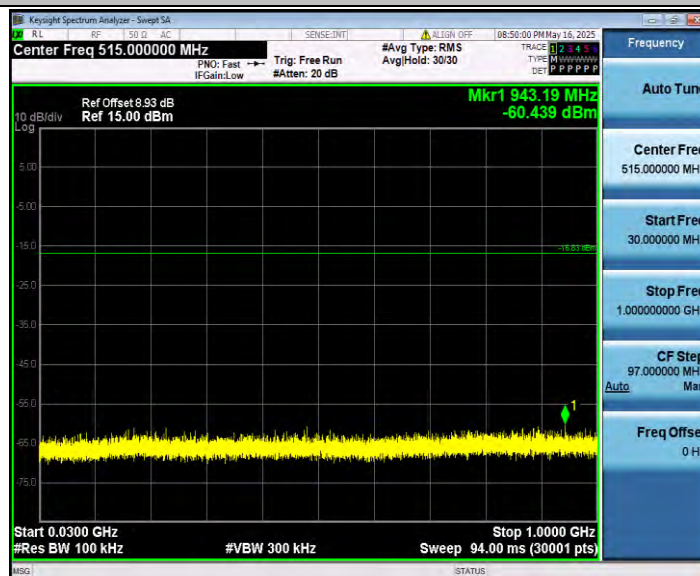
2DH1_Ant1_2480_1000~26500



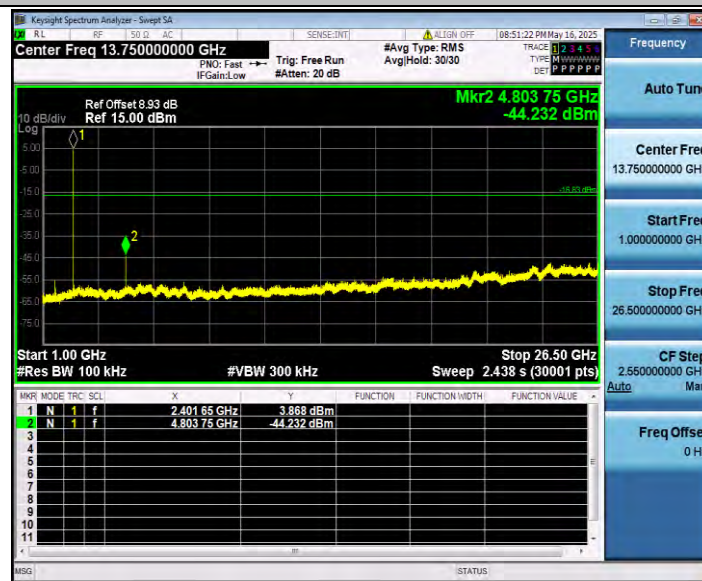
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



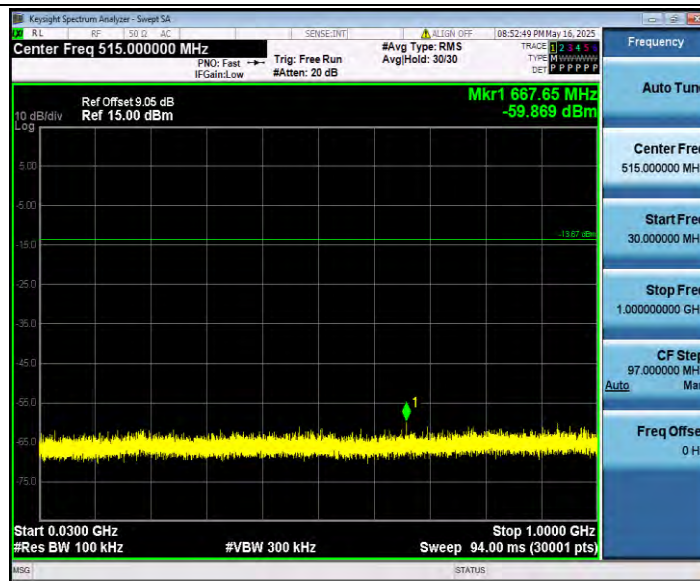
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

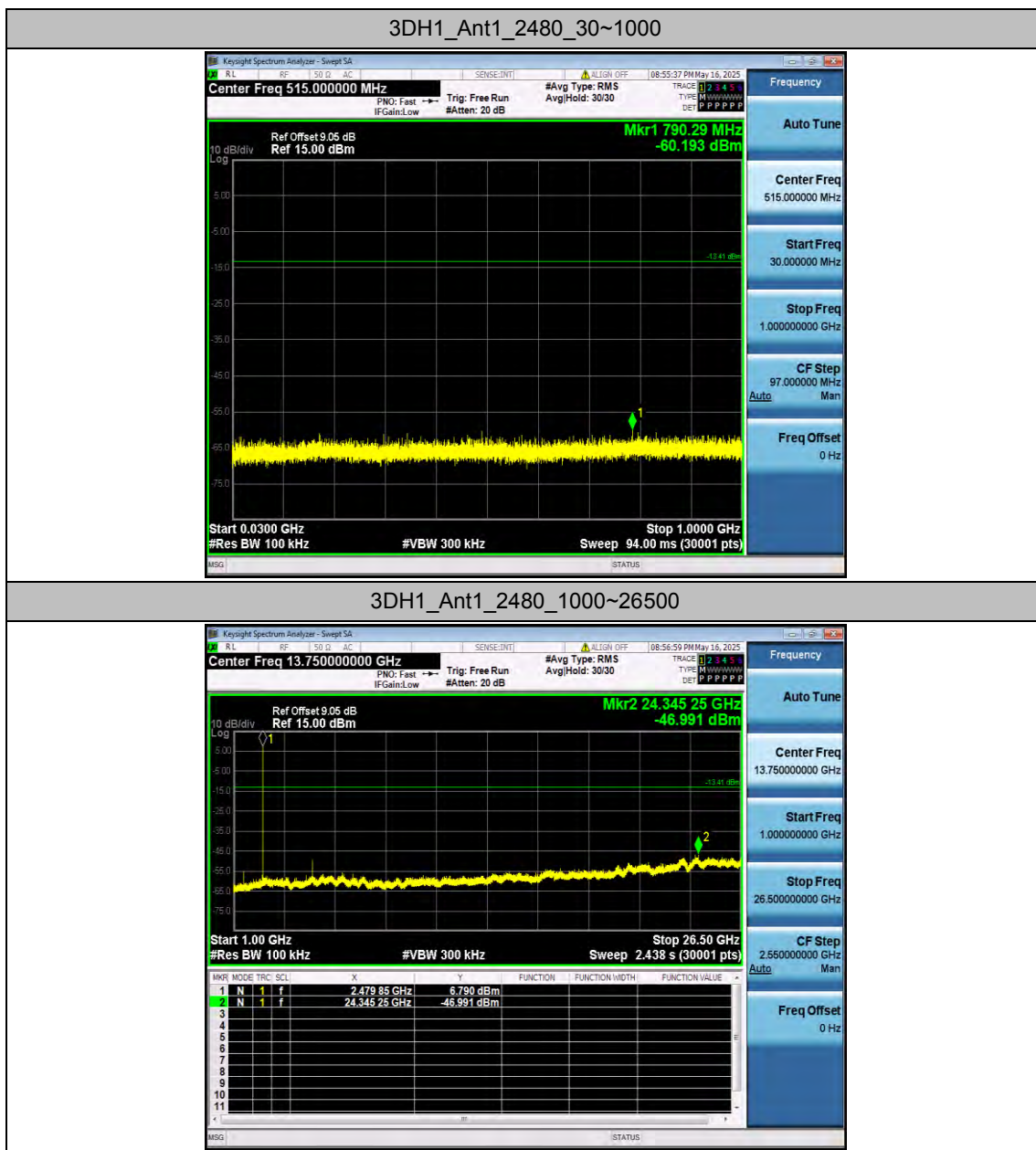


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

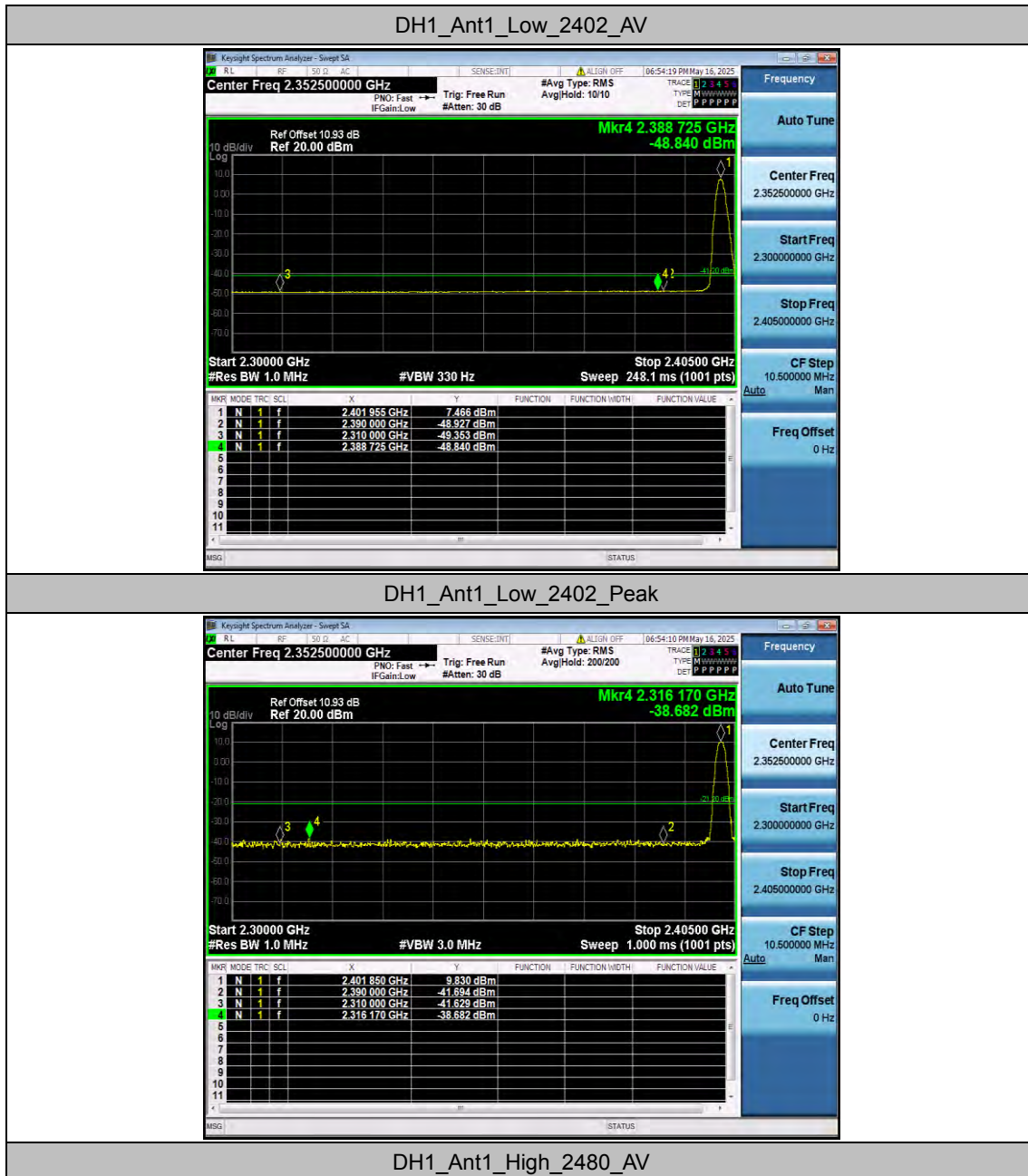
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.35	≤-41.20	45.85	≤54	PASS
				AV	2388.725	-48.84	≤-41.20	46.36	≤54	PASS
				AV	2390.000	-48.93	≤-41.20	46.27	≤54	PASS
				Peak	2310.000	-41.63	≤-21.20	53.57	≤74	PASS
				Peak	2316.170	-38.68	≤-21.20	56.52	≤74	PASS
				Peak	2390.000	-41.69	≤-21.20	53.51	≤74	PASS
		High	2480	AV	2483.500	-46.67	≤-41.20	48.53	≤54	PASS
				AV	2483.520	-46.67	≤-41.20	48.53	≤54	PASS
				AV	2500.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	2483.500	-38.07	≤-21.20	57.13	≤74	PASS
				Peak	2483.600	-36.4	≤-21.20	58.80	≤74	PASS
				Peak	2500.000	-41.57	≤-21.20	53.63	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.33	≤-41.20	45.87	≤54	PASS
				AV	2385.680	-48.84	≤-41.20	46.36	≤54	PASS
				AV	2390.000	-48.94	≤-41.20	46.26	≤54	PASS
				Peak	2310.000	-42.58	≤-21.20	52.62	≤74	PASS
				Peak	2380.955	-38.41	≤-21.20	56.79	≤74	PASS
				Peak	2390.000	-41.82	≤-21.20	53.38	≤74	PASS
		High	2480	AV	2483.500	-45.83	≤-41.20	49.37	≤54	PASS
				AV	2483.520	-45.83	≤-41.20	49.37	≤54	PASS
				AV	2500.000	-48.71	≤-41.20	46.49	≤54	PASS
				Peak	2483.500	-37.02	≤-21.20	58.18	≤74	PASS
				Peak	2483.600	-35.65	≤-21.20	59.55	≤74	PASS
				Peak	2500.000	-40.39	≤-21.20	54.81	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.36	≤-41.20	45.84	≤54	PASS
				AV	2372.975	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2390.000	-49.06	≤-41.20	46.14	≤54	PASS
				Peak	2310.000	-41.76	≤-21.20	53.44	≤74	PASS
				Peak	2382.740	-39.16	≤-21.20	56.04	≤74	PASS
				Peak	2390.000	-42.39	≤-21.20	52.81	≤74	PASS
		High	2480	AV	2483.500	-45.67	≤-41.20	49.53	≤54	PASS
				AV	2483.520	-45.67	≤-41.20	49.53	≤54	PASS
				AV	2500.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2483.500	-35.06	≤-21.20	60.14	≤74	PASS
				Peak	2483.600	-33.16	≤-21.20	62.04	≤74	PASS

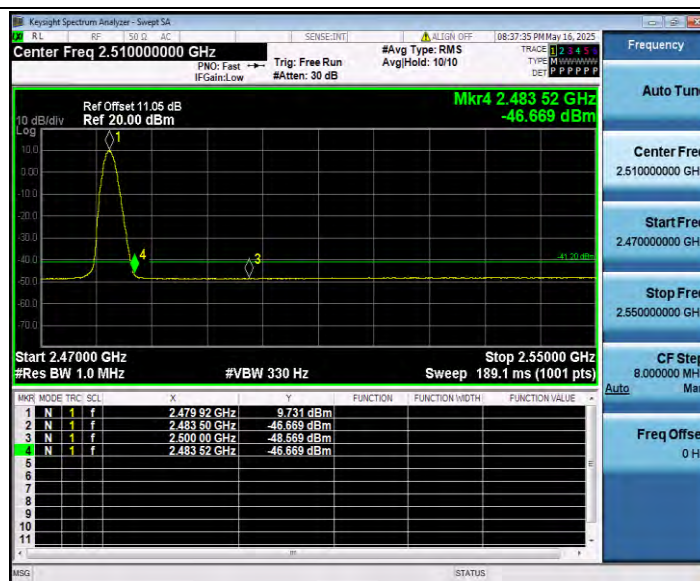
				Peak	2500.000	-41.88	≤ -21.20	53.32	≤ 74	PASS
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Note:

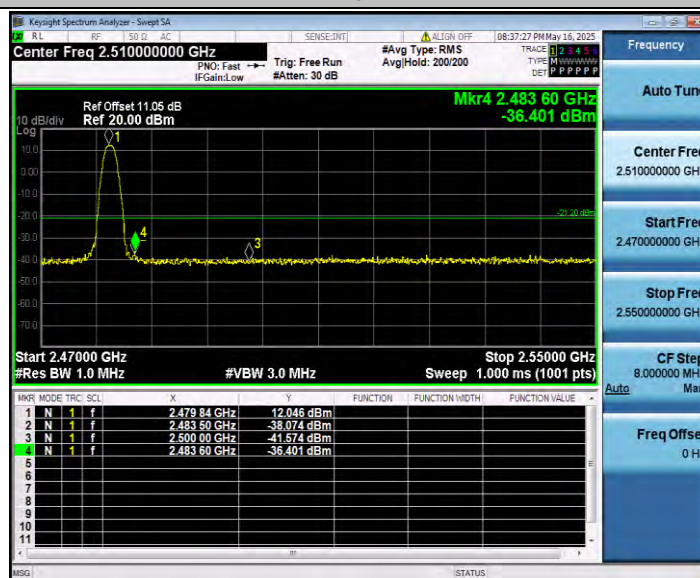
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

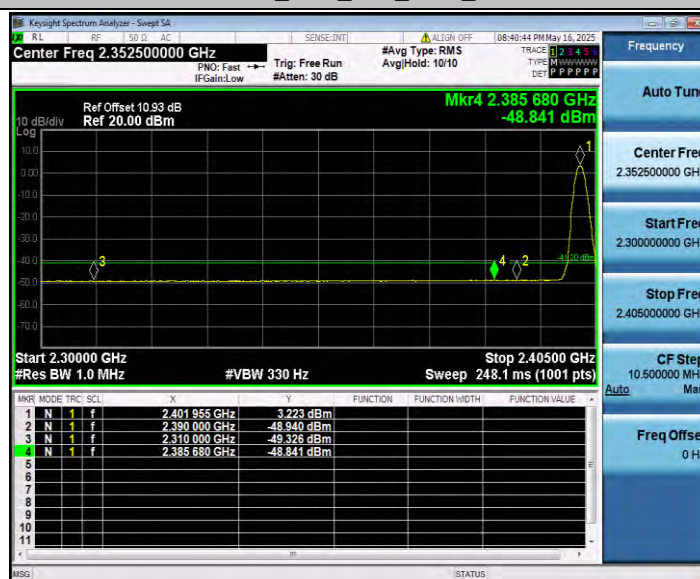




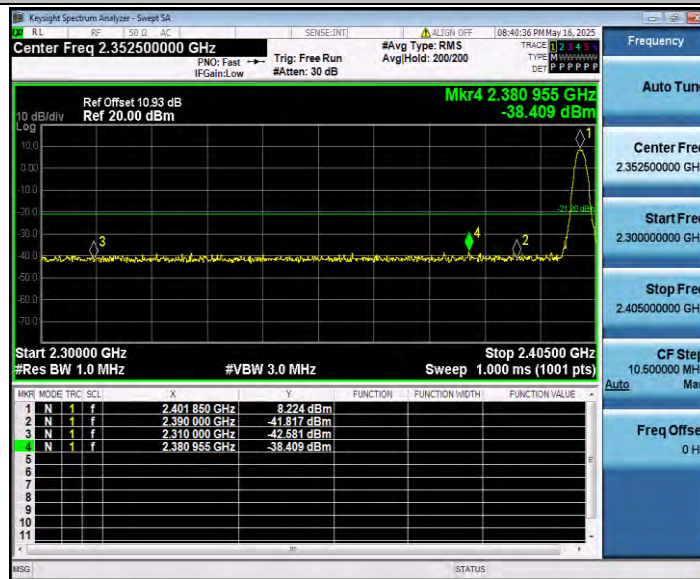
DH1_Ant1_High_2480_Peak



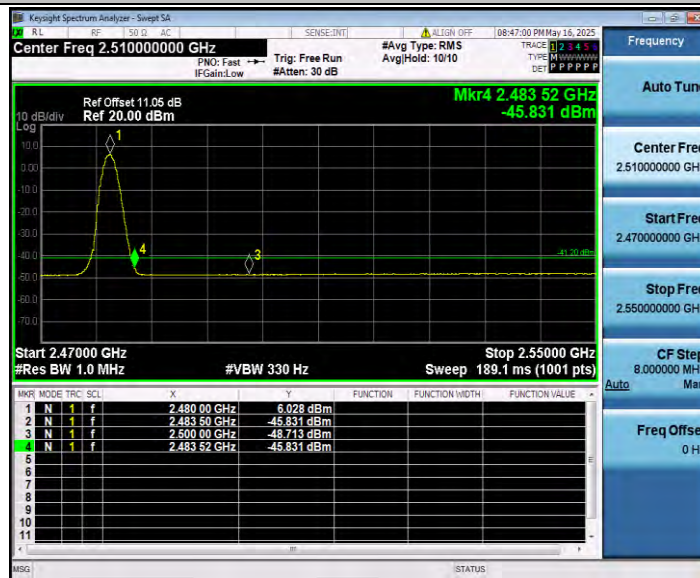
2DH1_Ant1_Low_2402_AV



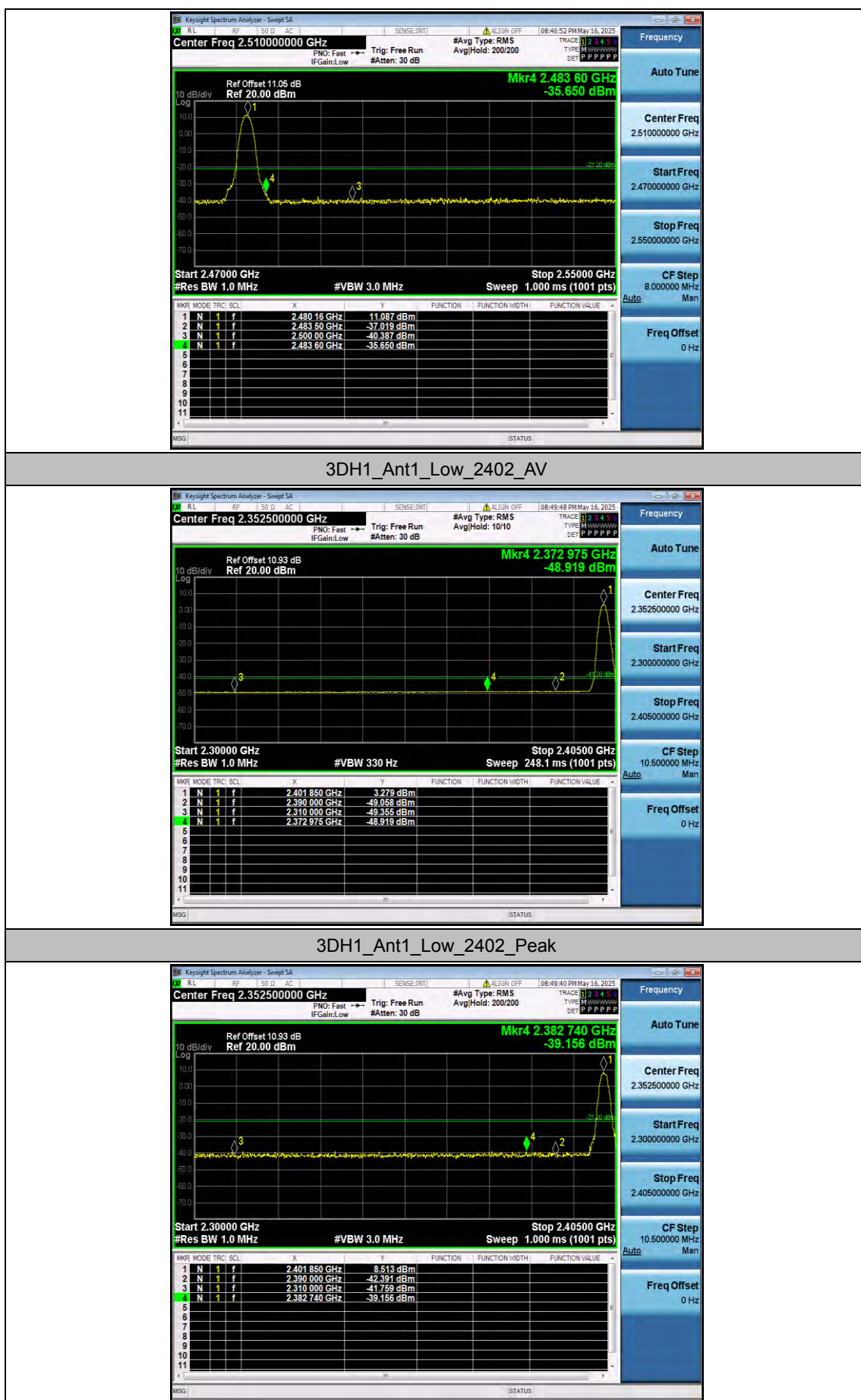
2DH1_Ant1_Low_2402_Peak

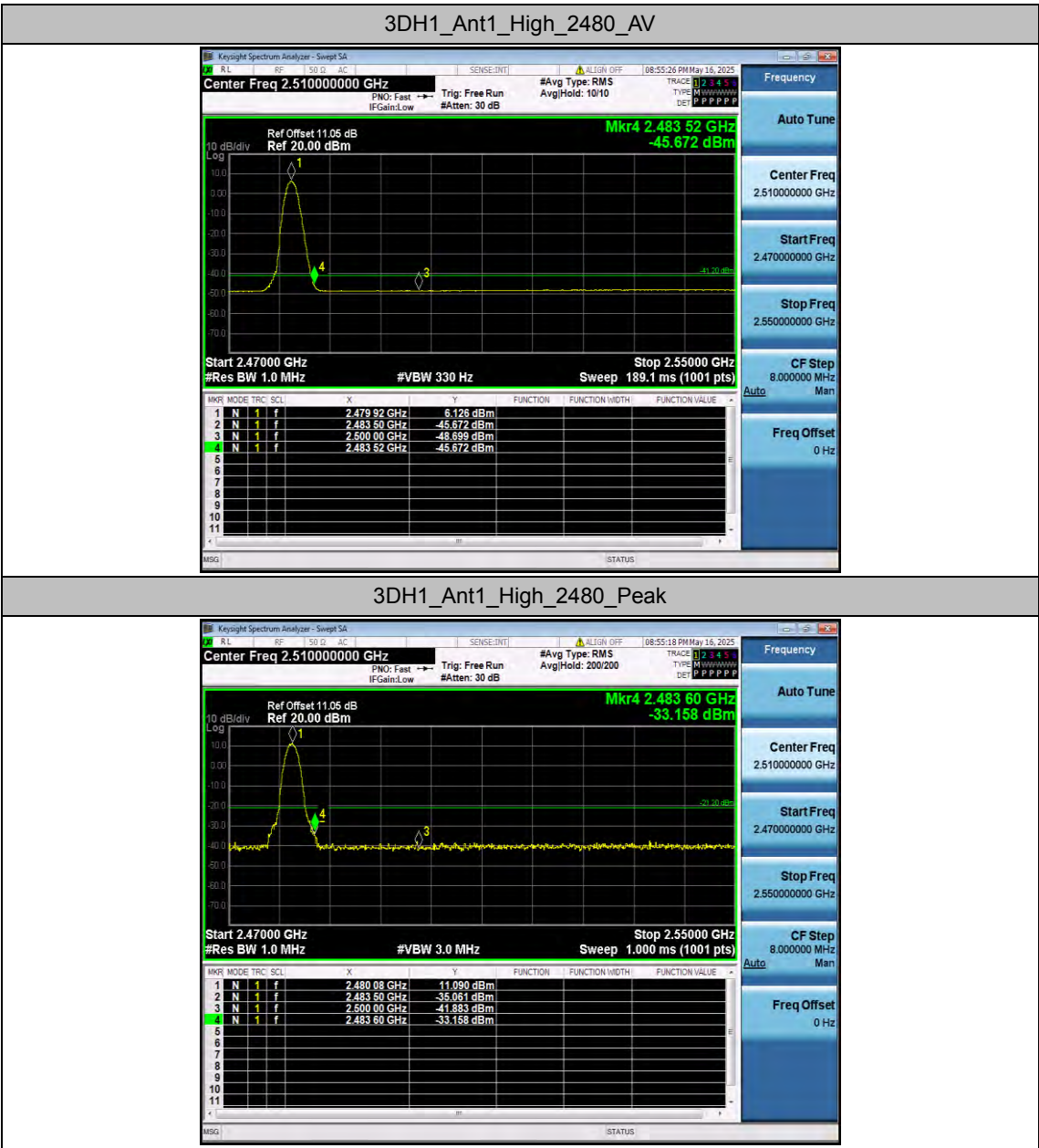


2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak





3DH1_Ant1_High_2480_Peak

Frequency

Auto Tune

Center Freq
2.510000000 GHzStart Freq
2.470000000 GHzStop Freq
2.550000000 GHzCF Step
8.000000 MHz
AutoFreq Offset
0 Hz