

Case No. : <u>GTS20250903022-1-09</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH
According Standard: ■Part15C
Test Date: <u>2025.9.13-2025.10.21</u> Test Engineer: <u>Evan ouyang</u>

AppendixA.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant2	2402	0.939	2401.490	2402.429	---	---
		2441	0.939	2440.490	2441.429	---	---
		2480	0.894	2479.532	2480.426	---	---
2DH1	Ant2	2402	1.317	2401.289	2402.606	---	---
		2441	1.290	2440.292	2441.582	---	---
		2480	1.302	2479.289	2480.591	---	---
3DH1	Ant2	2402	1.272	2401.322	2402.594	---	---
		2441	1.278	2440.313	2441.591	---	---
		2480	1.290	2479.307	2480.597	---	---

Test Graphs

DH1_Ant2_2402



DH1_Ant2_2441



DH1_Ant2_2480



2DH1_Ant2_2402



2DH1_Ant2_2441



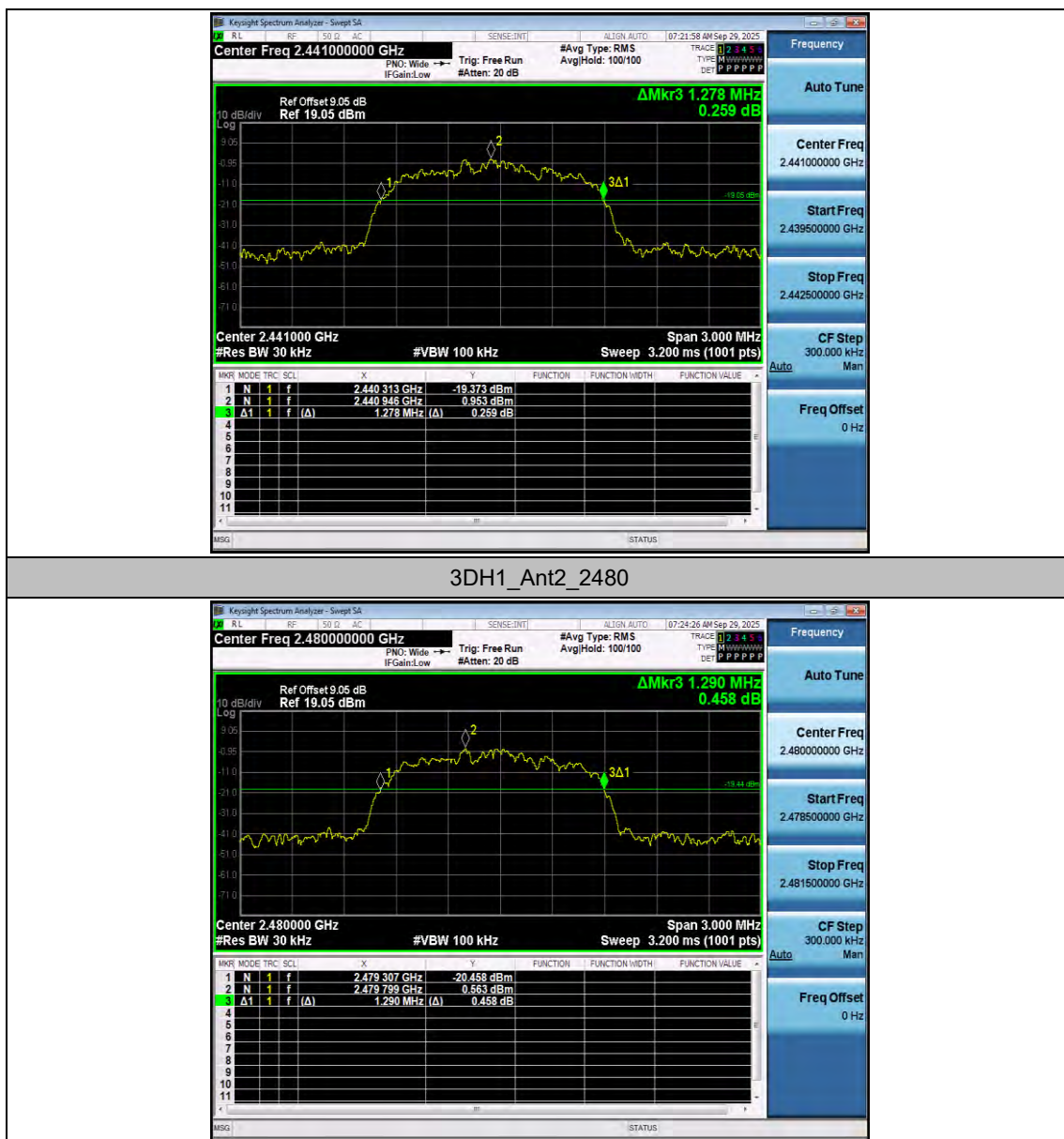
2DH1_Ant2_2480



3DH1_Ant2_2402



3DH1_Ant2_2441



AppendixA.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant2	2402	0.84303	2401.5354	2402.3784	---	---
		2441	0.83513	2440.5384	2441.3735	---	---
		2480	0.84380	2479.5335	2480.3773	---	---
2DH1	Ant2	2402	1.1800	2401.3597	2402.5397	---	---
		2441	1.1724	2440.3640	2441.5364	---	---
		2480	1.1814	2479.3553	2480.5367	---	---
3DH1	Ant2	2402	1.1588	2401.3895	2402.5483	---	---
		2441	1.1606	2440.3848	2441.5454	---	---
		2480	1.1625	2479.3844	2480.5469	---	---

Test Graphs

DH1_Ant2_2402



DH1_Ant2_2441



DH1_Ant2_2480



2DH1_Ant2_2402



2DH1_Ant2_2441



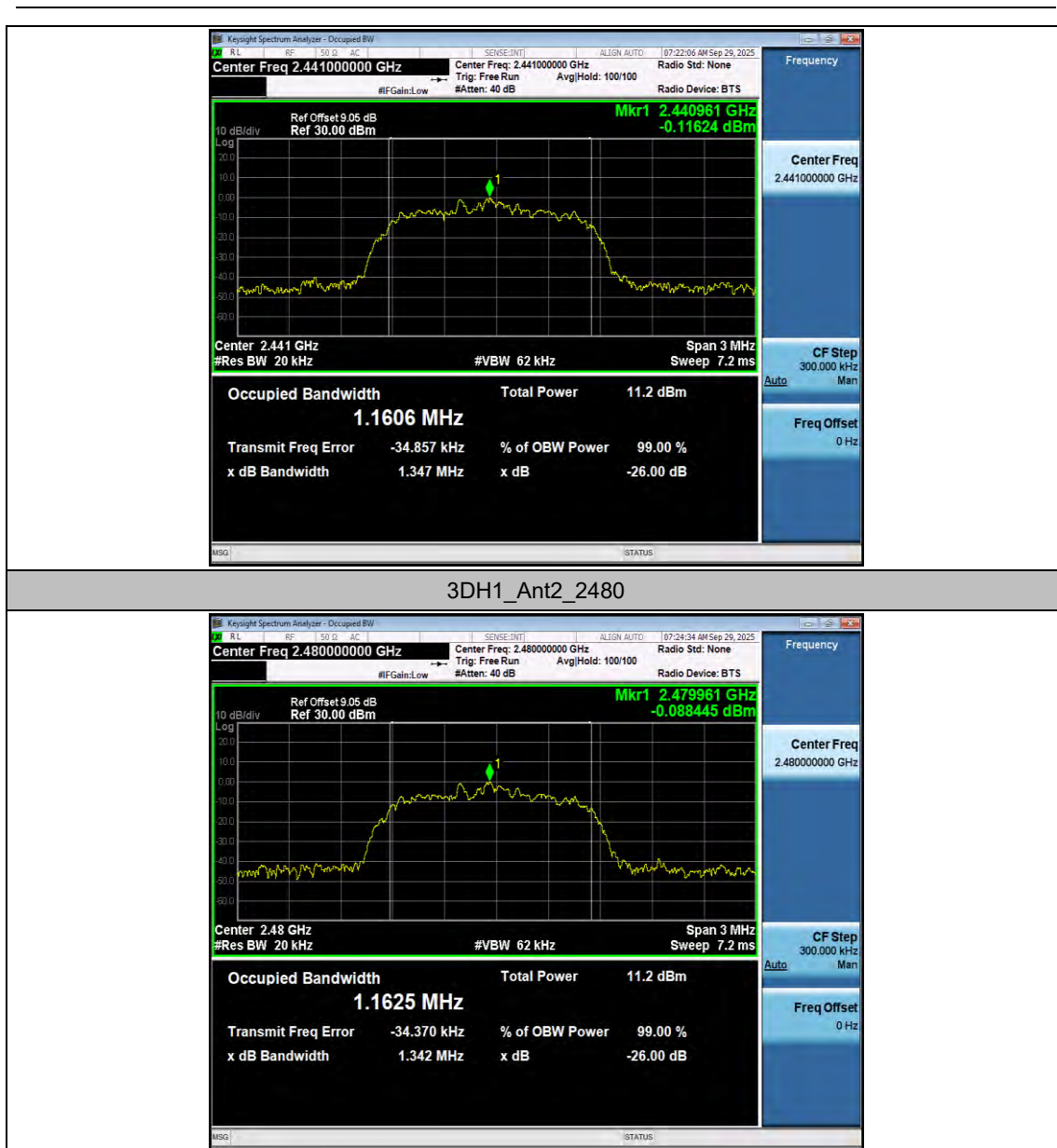
2DH1_Ant2_2480



3DH1_Ant2_2402



3DH1_Ant2_2441



AppendixA.3: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant2	2402	8.78	≤ 20.97	PASS
		2441	8.01	≤ 20.97	PASS
		2480	8.99	≤ 20.97	PASS
2DH1	Ant2	2402	8.19	≤ 20.97	PASS
		2441	8.41	≤ 20.97	PASS
		2480	8.43	≤ 20.97	PASS
3DH1	Ant2	2402	8.50	≤ 20.97	PASS
		2441	8.75	≤ 20.97	PASS
		2480	8.72	≤ 20.97	PASS

AppendixA.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant2	Hop_2402	0.71	≥ 0.626	PASS
		Hop_2441	0.67	≥ 0.626	PASS
		Hop_2480	0.996	≥ 0.626	PASS
2DH1	Ant2	Hop_2402	1.158	≥ 0.878	PASS
		Hop_2441	0.996	≥ 0.878	PASS
		Hop_2480	1.01	≥ 0.878	PASS
3DH1	Ant2	Hop_2402	0.964	≥ 0.860	PASS
		Hop_2441	1.00	≥ 0.860	PASS
		Hop_2480	1.006	≥ 0.860	PASS

Test Graphs

DH1_Ant2_Hop_2402



DH1_Ant2_Hop_2441



DH1_Ant2_Hop_2480



2DH1_Ant2_Hop_2402



2DH1_Ant2_Hop_2441



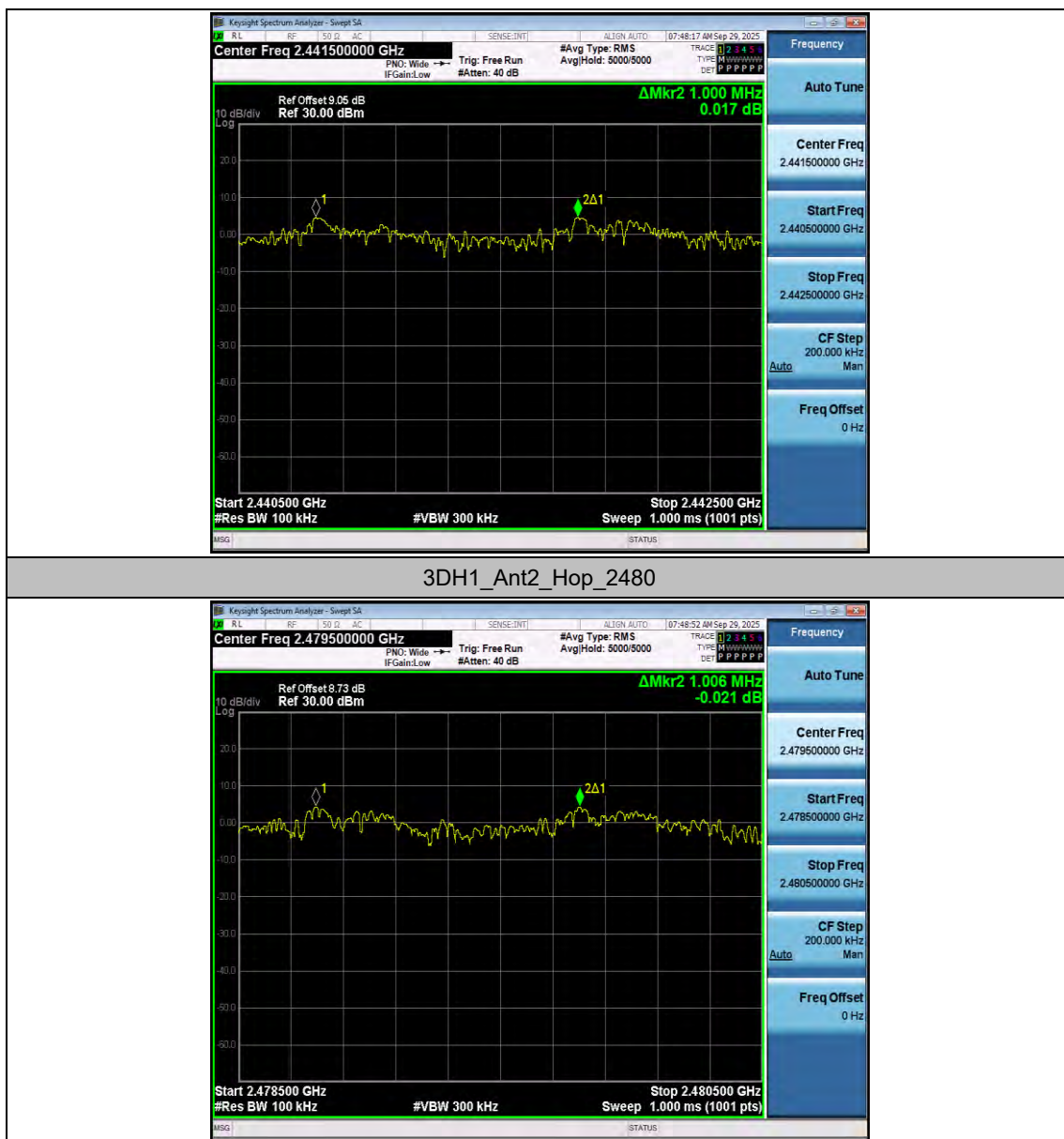
2DH1_Ant2_Hop_2480



3DH1_Ant2_Hop_2402



3DH1_Ant2_Hop_2441

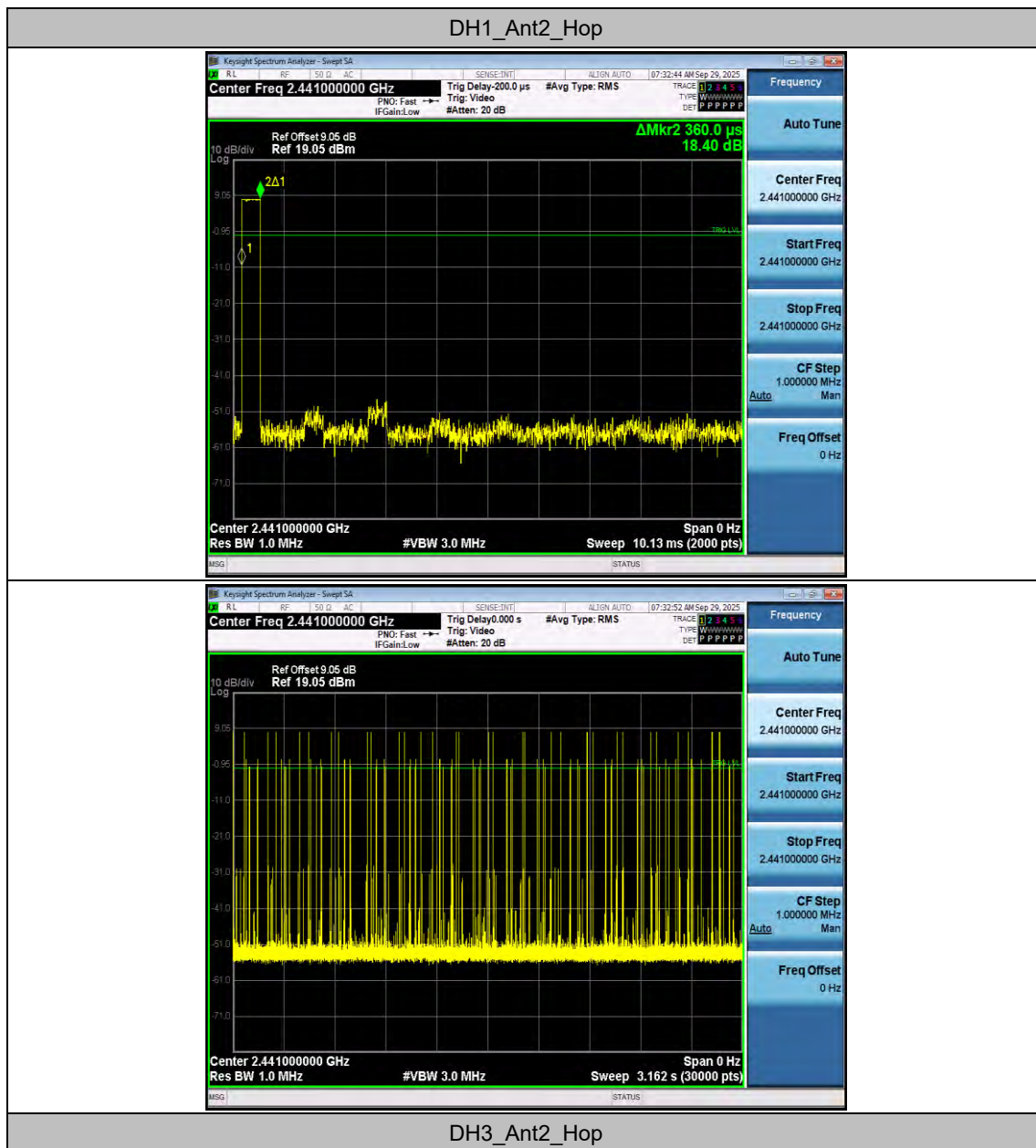


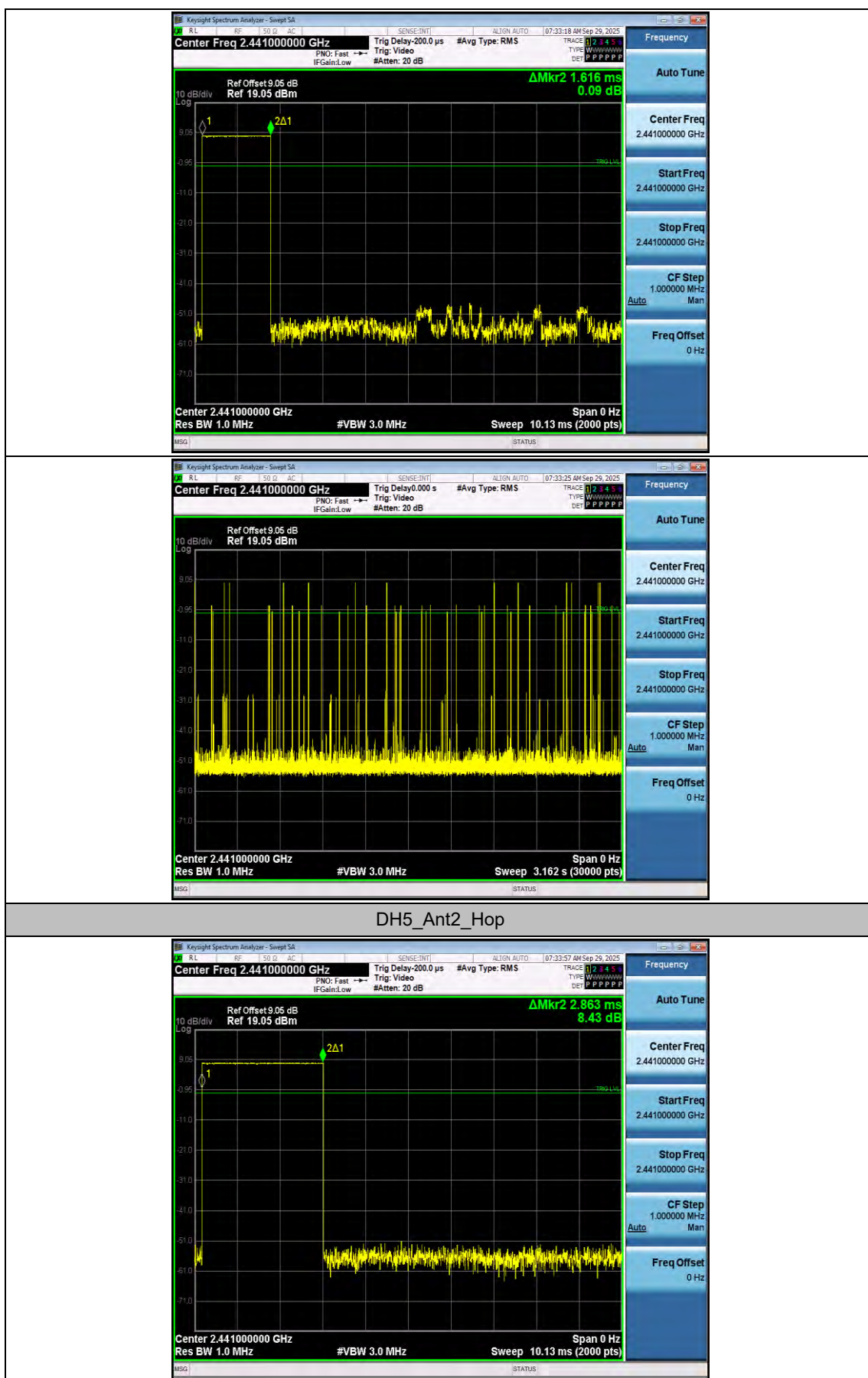
AppendixA.5: Time of occupancy

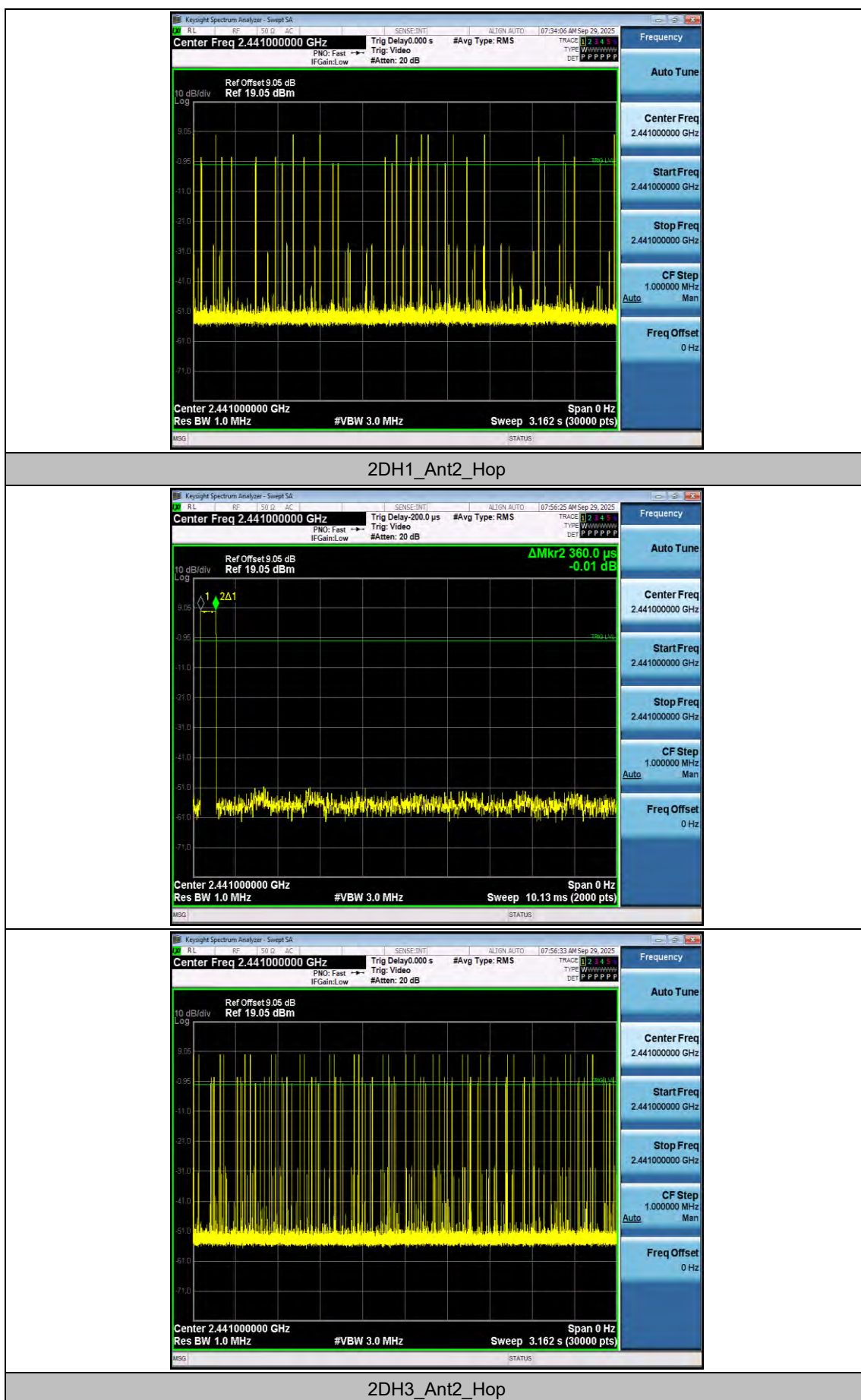
Test Result

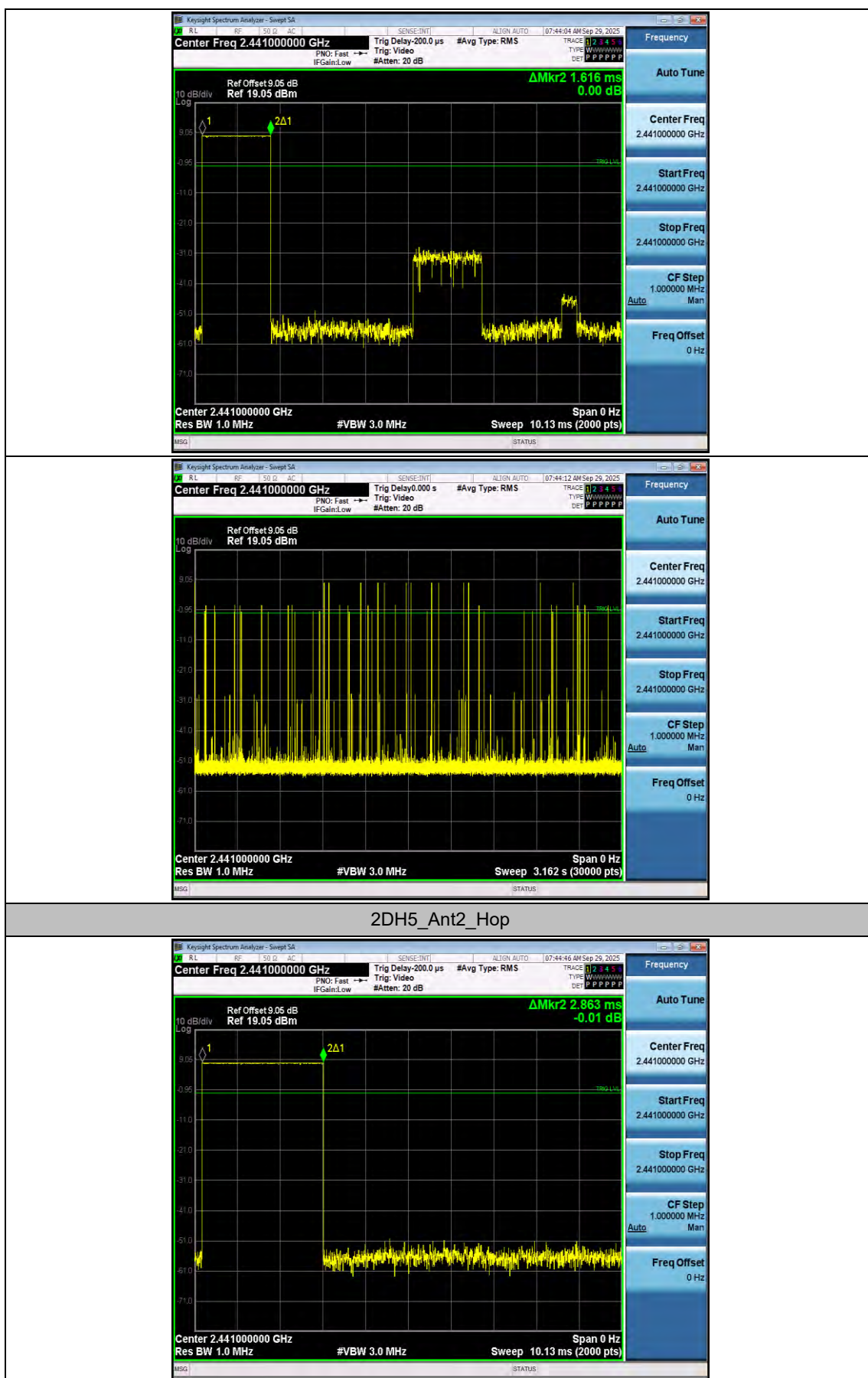
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant2	Hop	0.360	320	0.115	≤0.4	PASS
DH3	Ant2	Hop	1.616	130	0.21	≤0.4	PASS
DH5	Ant2	Hop	2.863	110	0.315	≤0.4	PASS
2DH1	Ant2	Hop	0.360	320	0.115	≤0.4	PASS
2DH3	Ant2	Hop	1.616	140	0.226	≤0.4	PASS
2DH5	Ant2	Hop	2.863	110	0.315	≤0.4	PASS
3DH1	Ant2	Hop	0.360	330	0.119	≤0.4	PASS
3DH3	Ant2	Hop	1.611	160	0.258	≤0.4	PASS
3DH5	Ant2	Hop	2.863	70	0.2	≤0.4	PASS

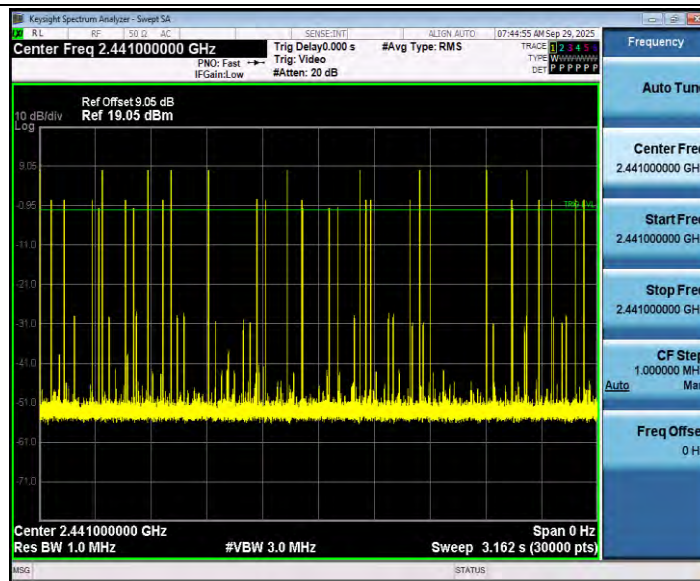
Test Graphs



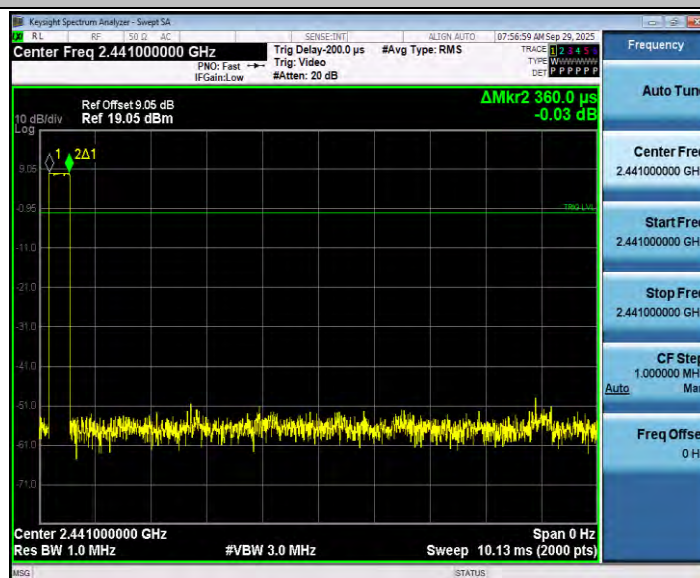




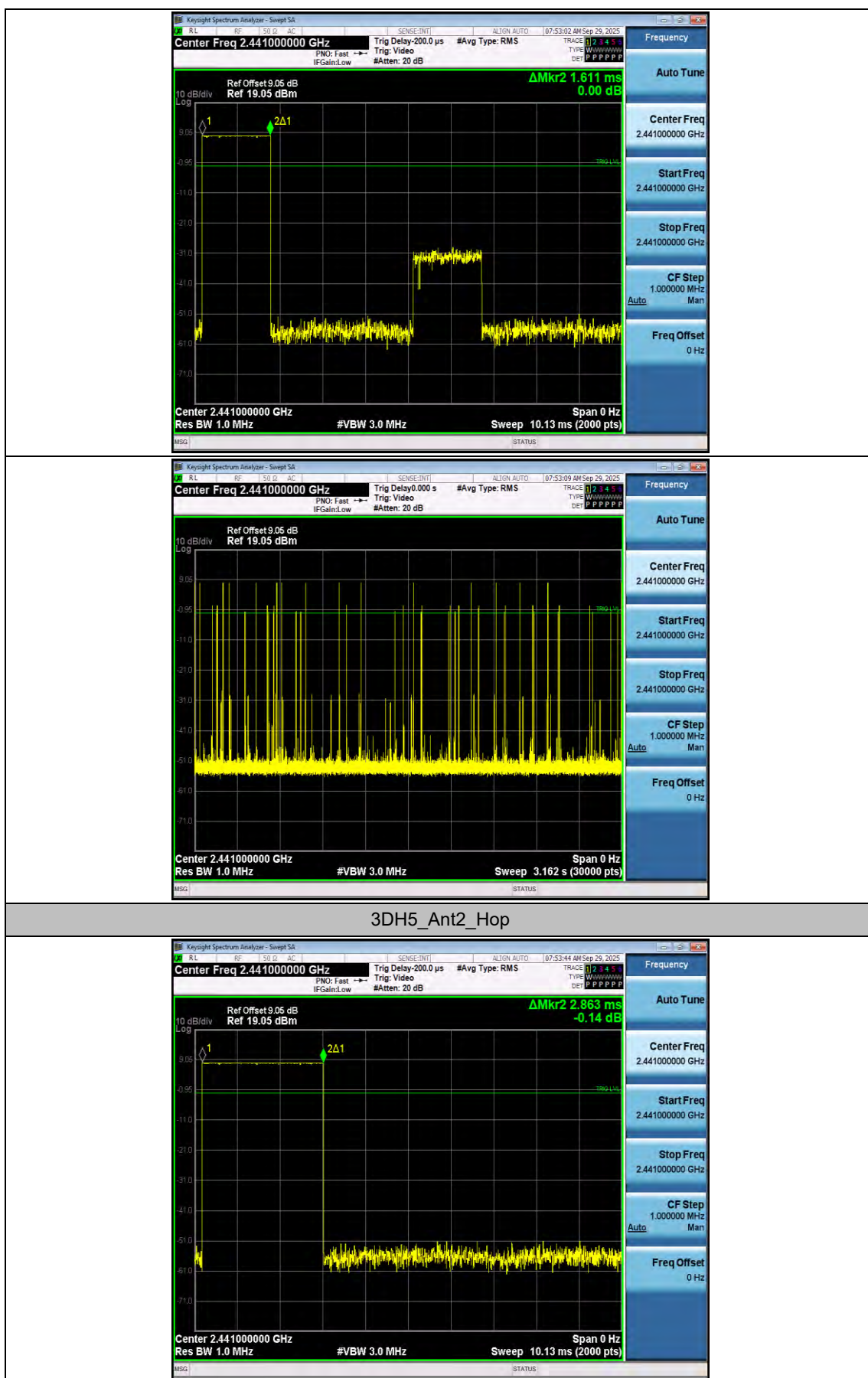




3DH1_Ant2_Hop



3DH3_Ant2_Hop

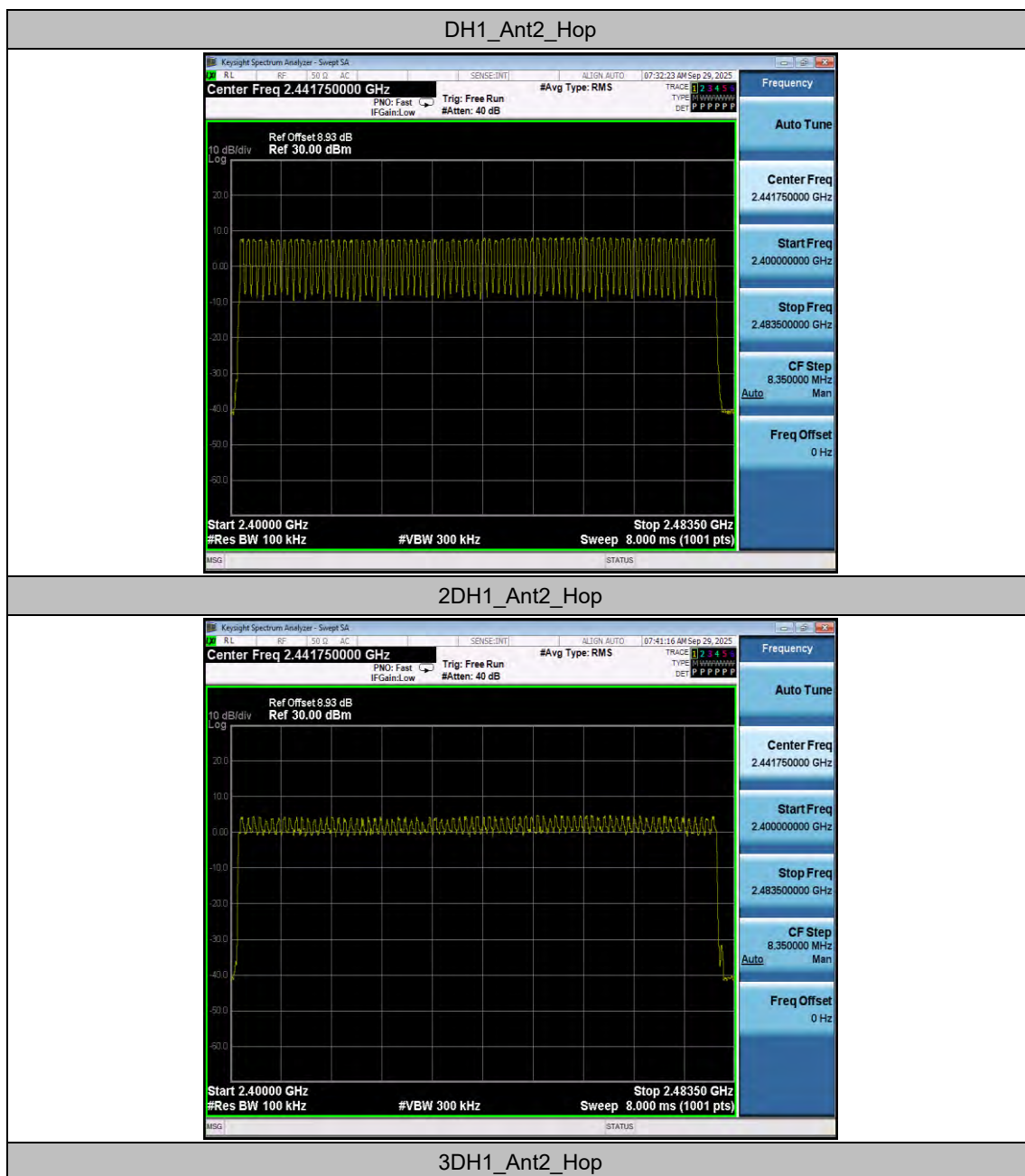


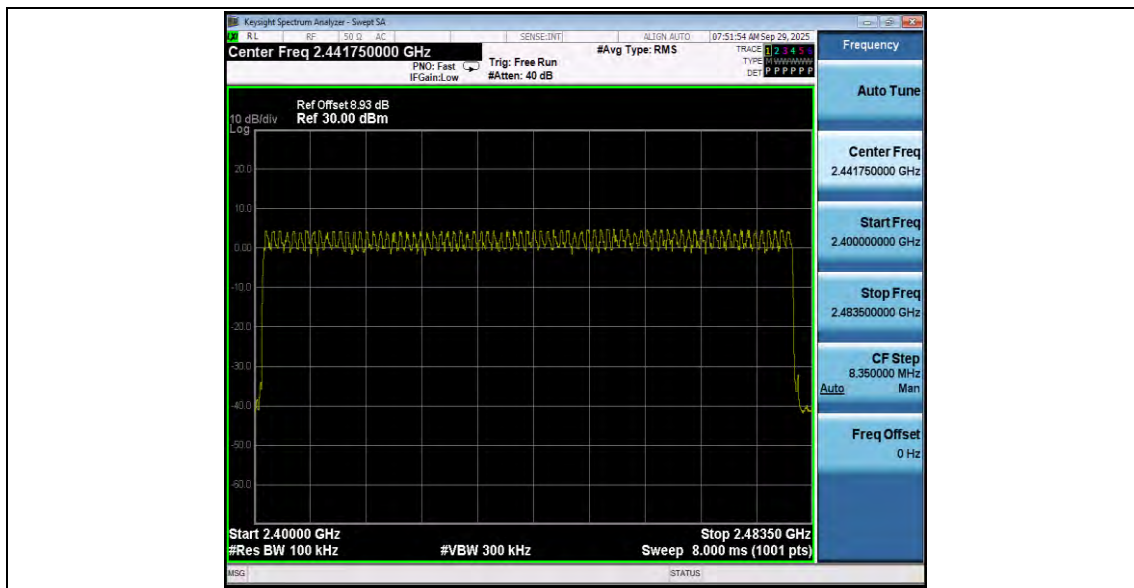


AppendixA.6: Number of hopping channels**Test Result**

TestMode	Antenna	Freq(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



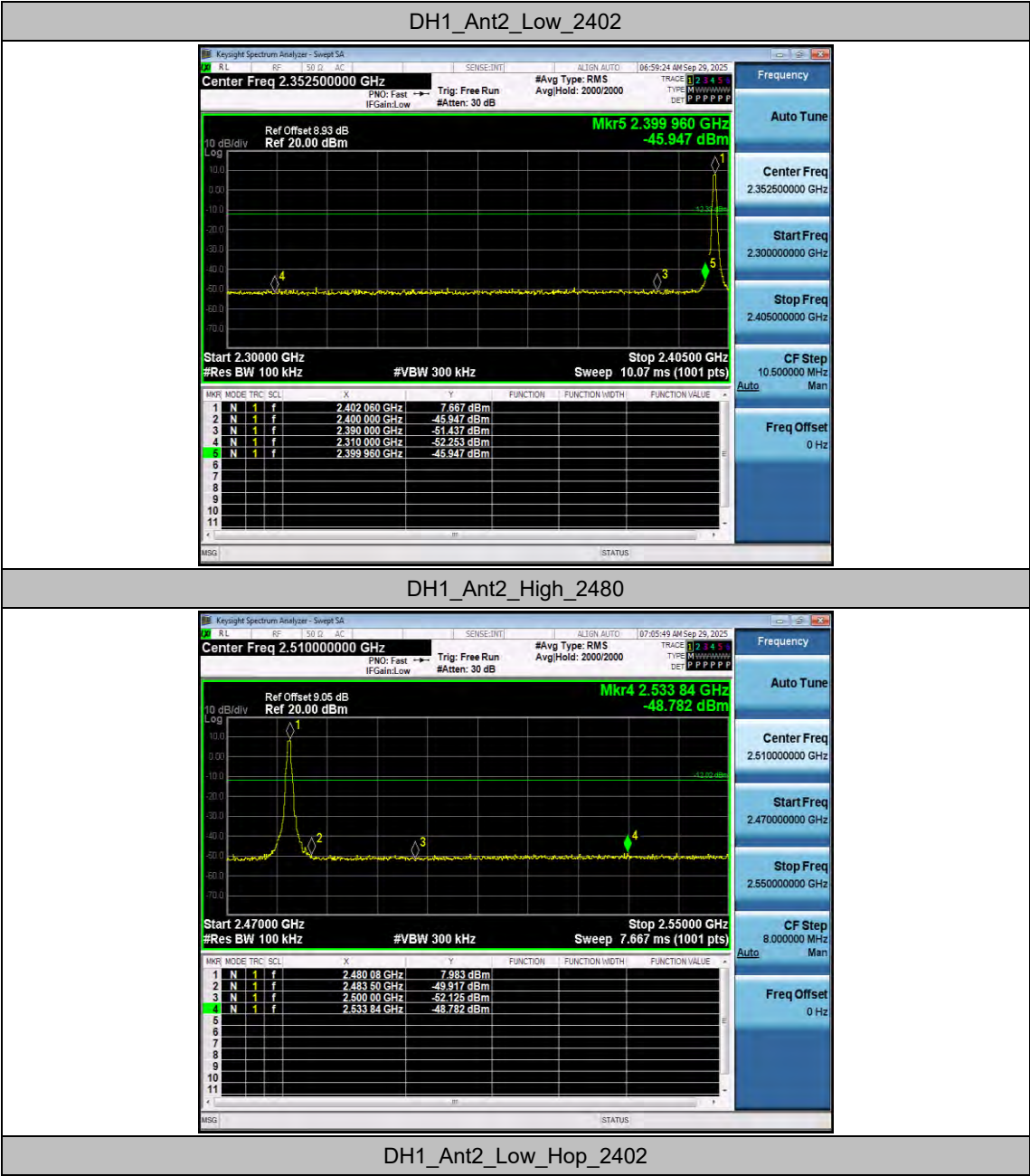


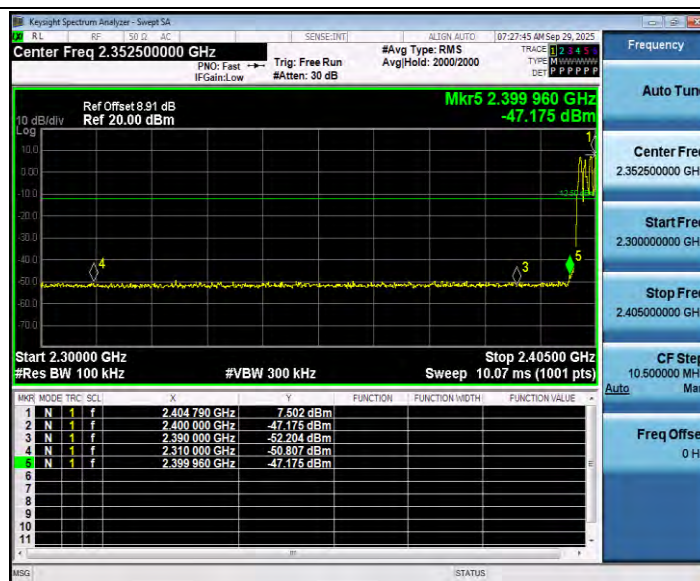
Appendix A.7: Band edge measurements

Test Result

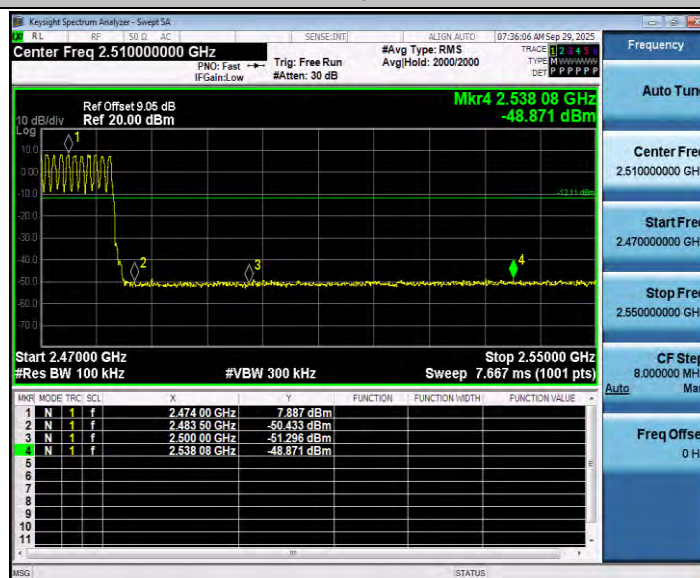
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant2	Low	2402	7.67	-45.95	≤ -12.33	PASS
		High	2480	7.98	-48.78	≤ -12.02	PASS
		Low	Hop_2402	7.50	-47.18	≤ -12.5	PASS
		High	Hop_2480	7.89	-48.87	≤ -12.11	PASS
2DH1	Ant2	Low	2402	4.26	-46.16	≤ -15.74	PASS
		High	2480	4.45	-48.99	≤ -15.55	PASS
		Low	Hop_2402	4.07	-49.11	≤ -15.93	PASS
		High	Hop_2480	4.66	-43.96	≤ -15.34	PASS
3DH1	Ant2	Low	2402	4.34	-46.92	≤ -15.66	PASS
		High	2480	4.64	-48.12	≤ -15.36	PASS
		Low	Hop_2402	4.01	-49.2	≤ -15.99	PASS
		High	Hop_2480	4.81	-48.26	≤ -15.19	PASS

Test Graphs

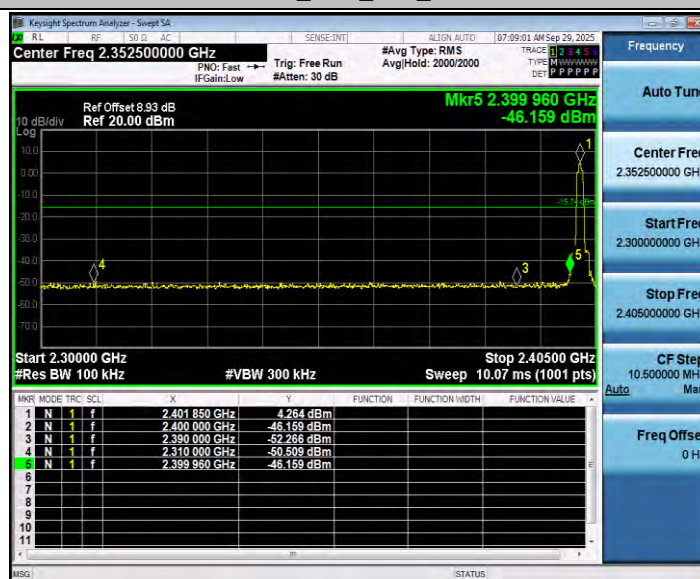




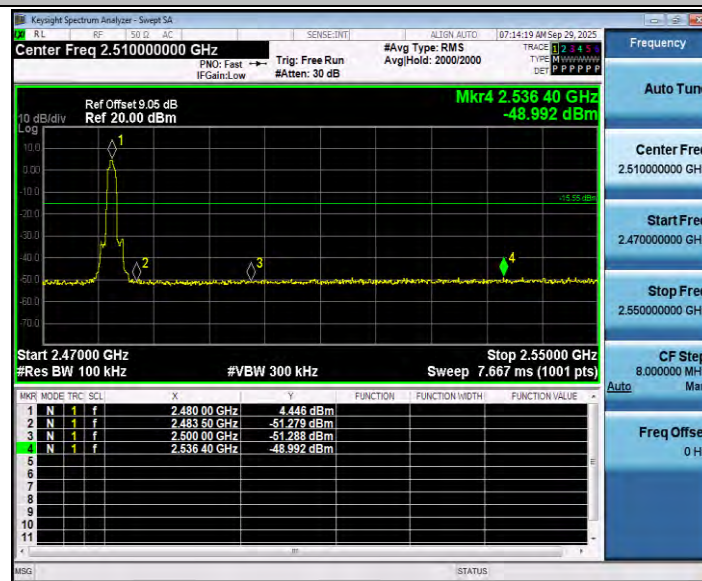
DH1_Ant2_High_Hop_2480



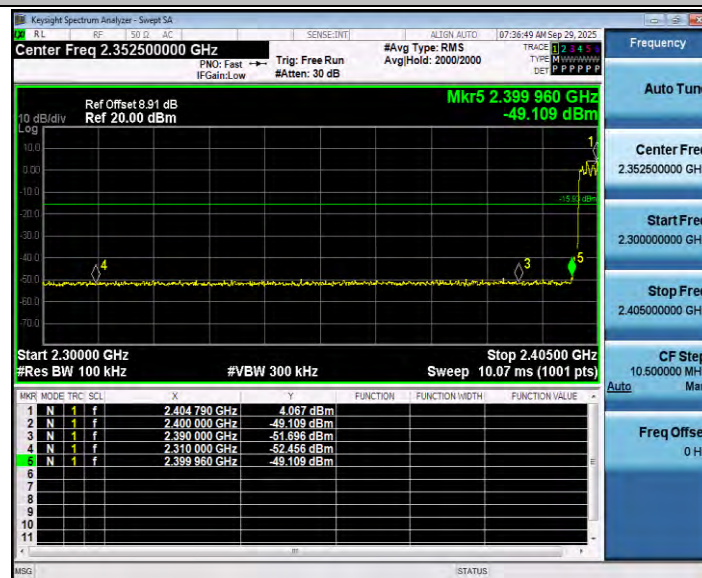
2DH1_Ant2_Low_2402



2DH1_Ant2_High_2480

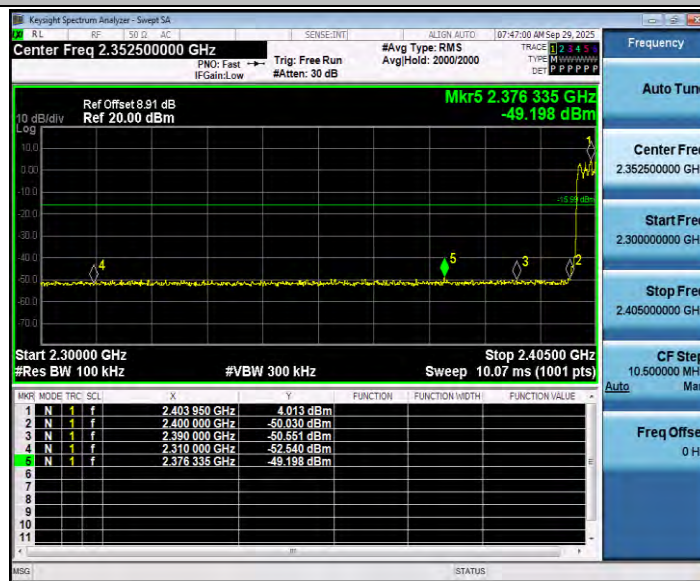


2DH1_Ant2_Low_Hop_2402

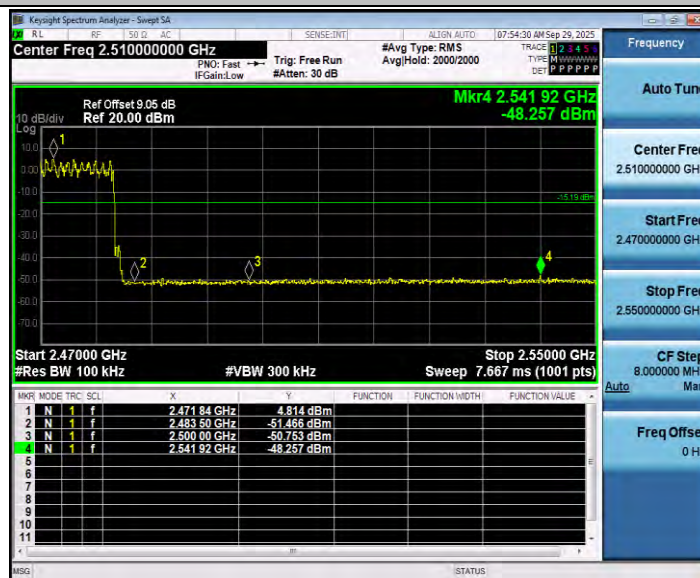


2DH1_Ant2_High_Hop_2480

3DH1_Ant2_Low_Hop_2402



3DH1_Ant2_High_Hop_2480

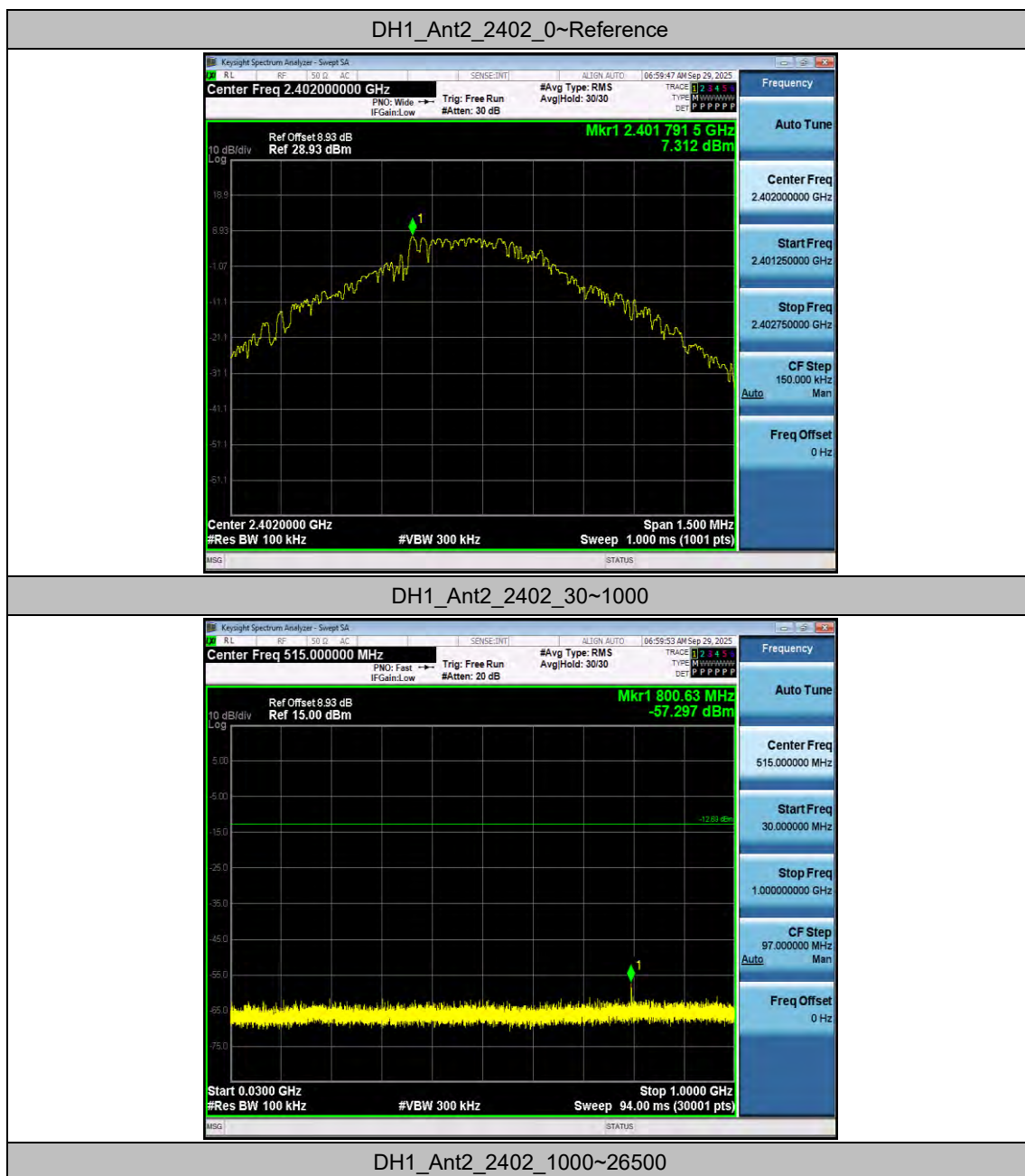


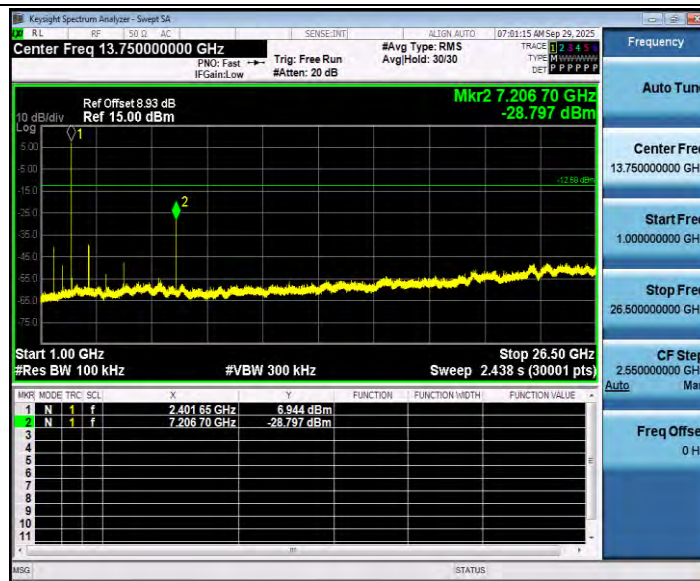
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant2	2402	Reference	7.31	7.31	---	PASS
			30~1000	7.31	-57.3	≤-12.69	PASS
			1000~26500	7.31	-28.8	≤-12.69	PASS
		2441	Reference	7.67	7.67	---	PASS
			30~1000	7.67	-59.7	≤-12.33	PASS
			1000~26500	7.67	-30.26	≤-12.33	PASS
		2480	Reference	7.57	7.57	---	PASS
			30~1000	7.57	-58.26	≤-12.43	PASS
			1000~26500	7.57	-28.94	≤-12.43	PASS
2DH1	Ant2	2402	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-60.77	≤-16.47	PASS
			1000~26500	3.53	-30.65	≤-16.47	PASS
		2441	Reference	3.82	3.82	---	PASS
			30~1000	3.82	-60.51	≤-16.18	PASS
			1000~26500	3.82	-29.84	≤-16.18	PASS
		2480	Reference	4.28	4.28	---	PASS
			30~1000	4.28	-60.51	≤-15.72	PASS
			1000~26500	4.28	-31.55	≤-15.72	PASS
3DH1	Ant2	2402	Reference	3.22	3.22	---	PASS
			30~1000	3.22	-59.87	≤-16.78	PASS
			1000~26500	3.22	-30.6	≤-16.78	PASS
		2441	Reference	3.75	3.75	---	PASS
			30~1000	3.75	-60.23	≤-16.25	PASS
			1000~26500	3.75	-30.22	≤-16.25	PASS
		2480	Reference	4.56	4.56	---	PASS
			30~1000	4.56	-59.9	≤-15.44	PASS
			1000~26500	4.56	-31.51	≤-15.44	PASS

Test Graphs

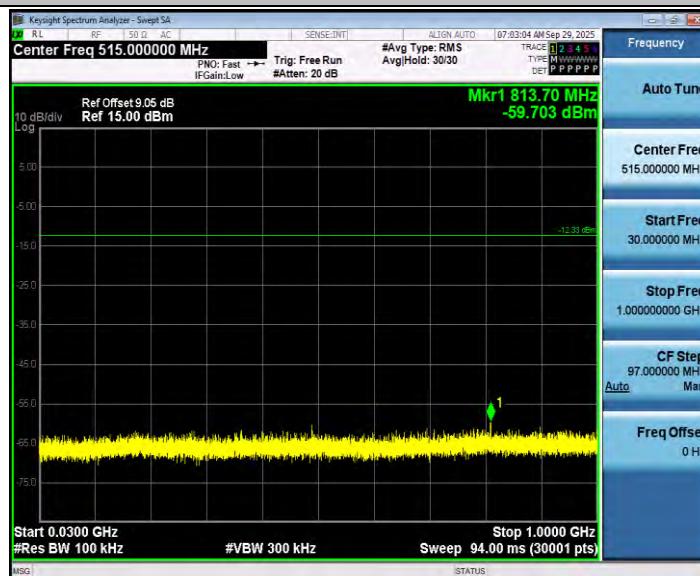




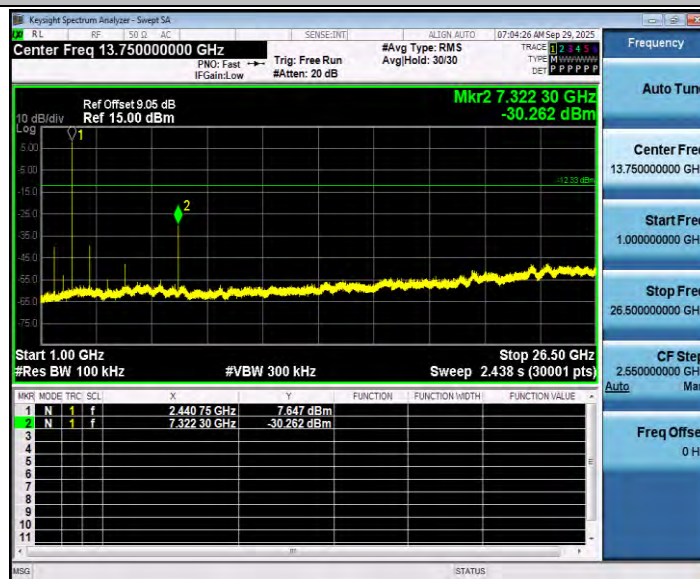
DH1_Ant2_2441_0~Reference



DH1_Ant2_2441_30~1000



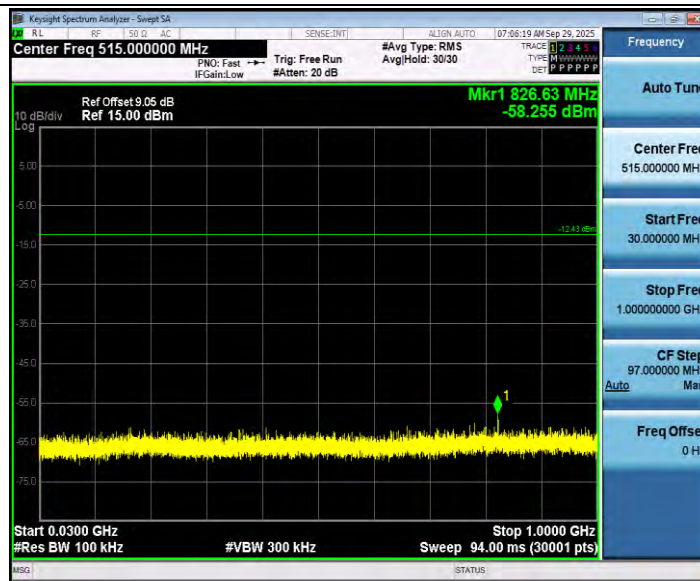
DH1_Ant2_2441_1000~26500



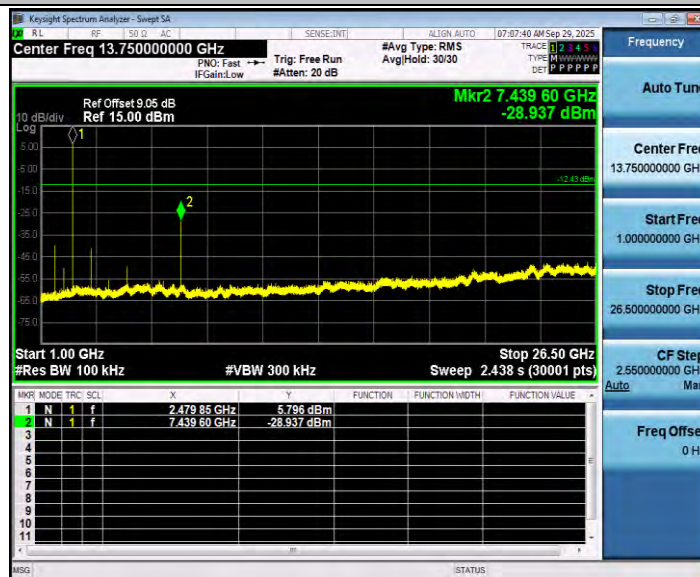
DH1_Ant2_2480_0~Reference



DH1_Ant2_2480_30~1000

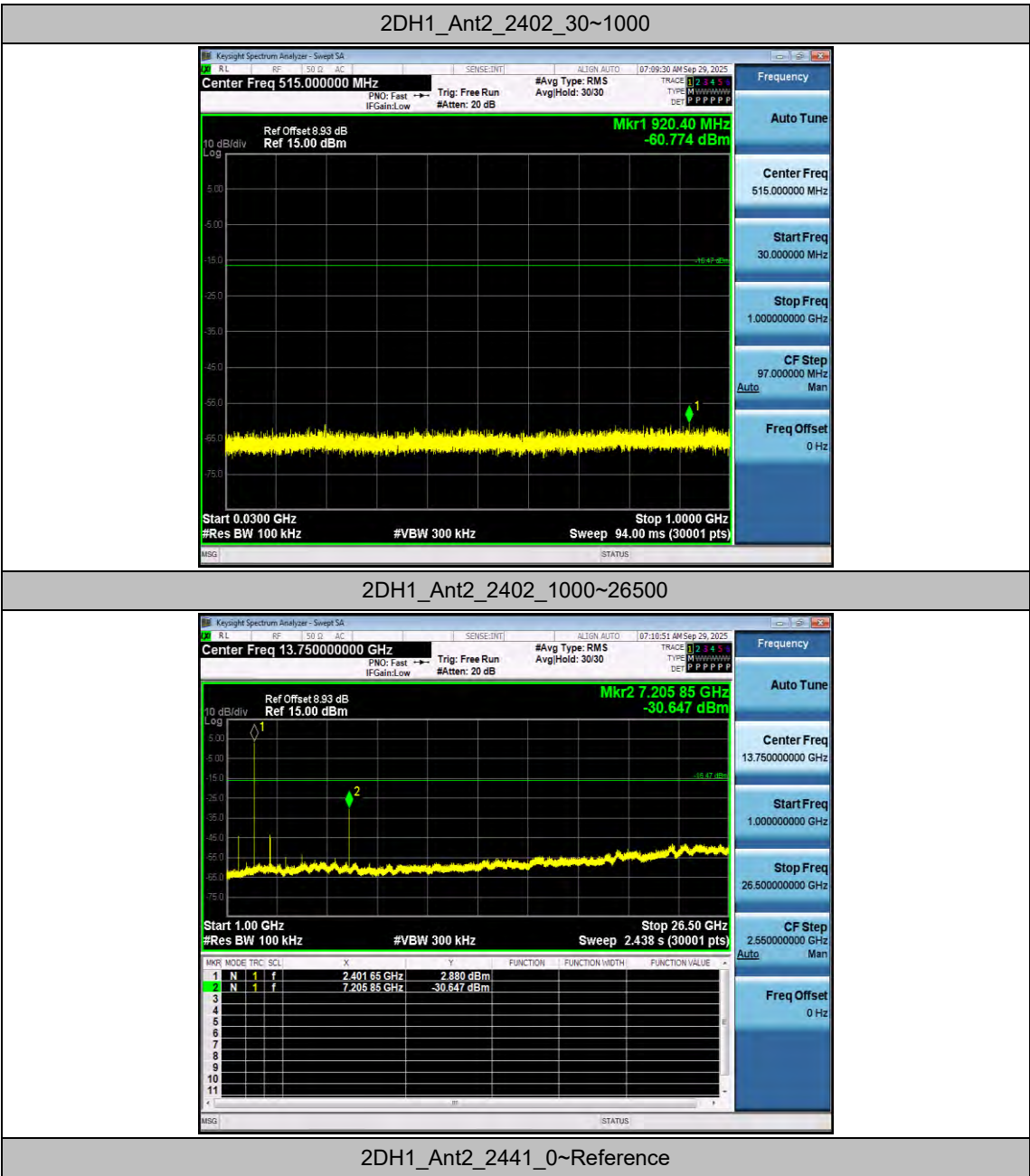


DH1_Ant2_2480_1000~26500



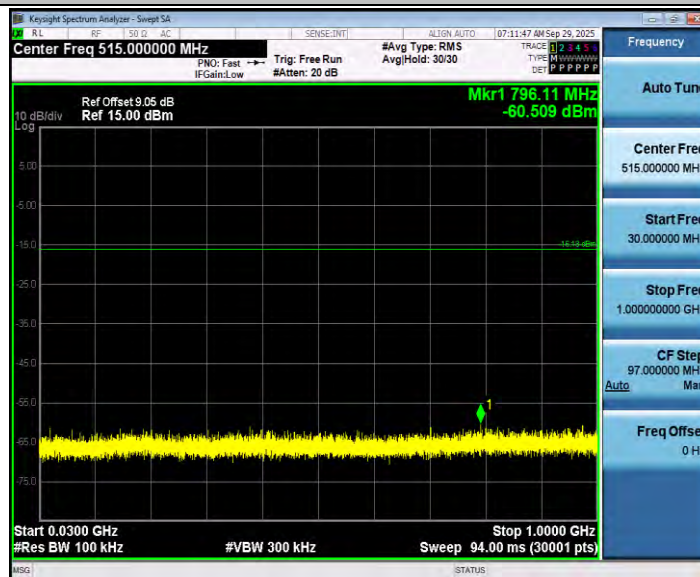
2DH1_Ant2_2402_0~Reference



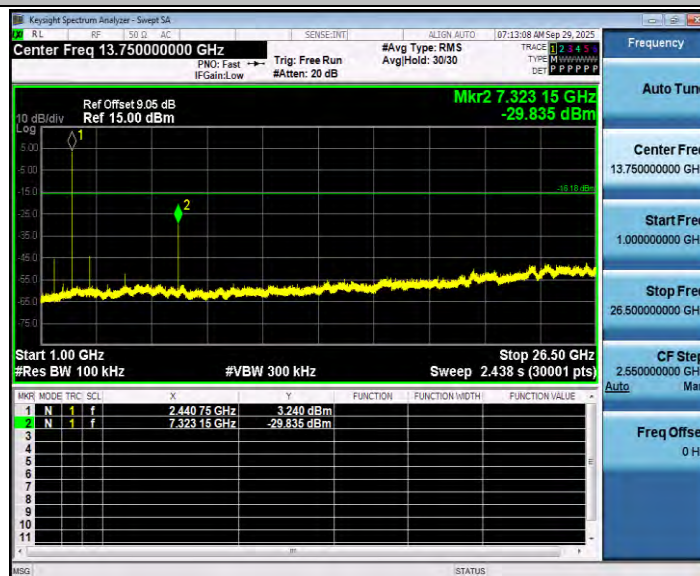




2DH1_Ant2_2441_30~1000



2DH1_Ant2_2441_1000~26500



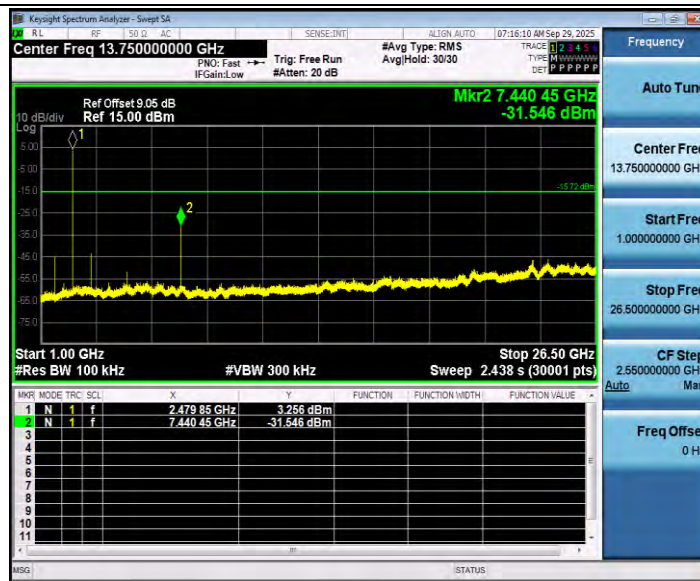
2DH1_Ant2_2480_0~Reference



2DH1_Ant2_2480_30~1000



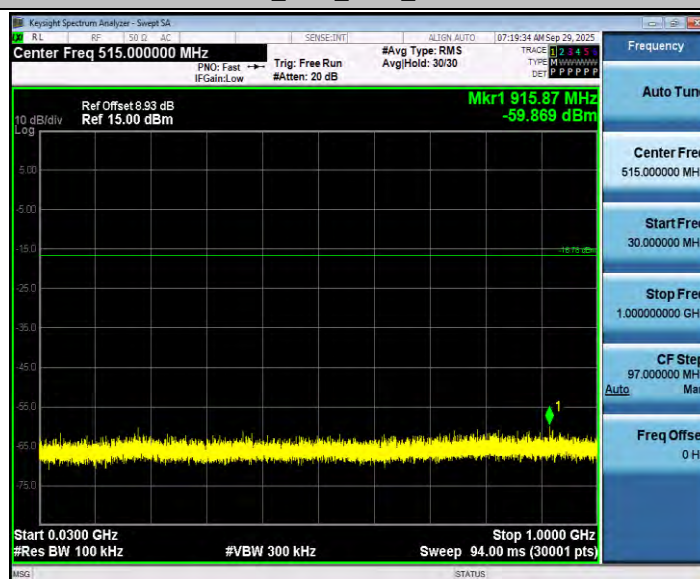
2DH1_Ant2_2480_1000~26500

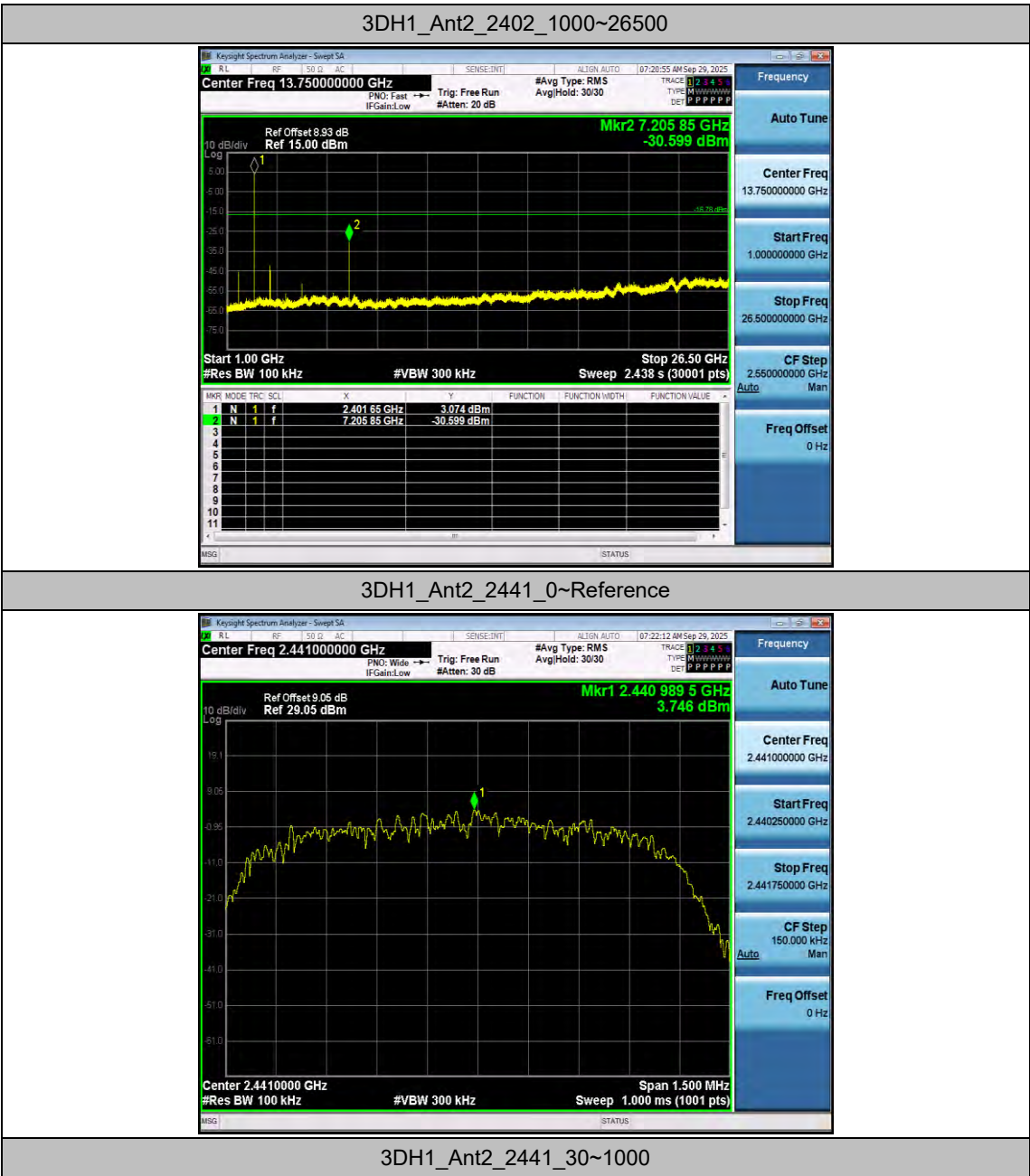


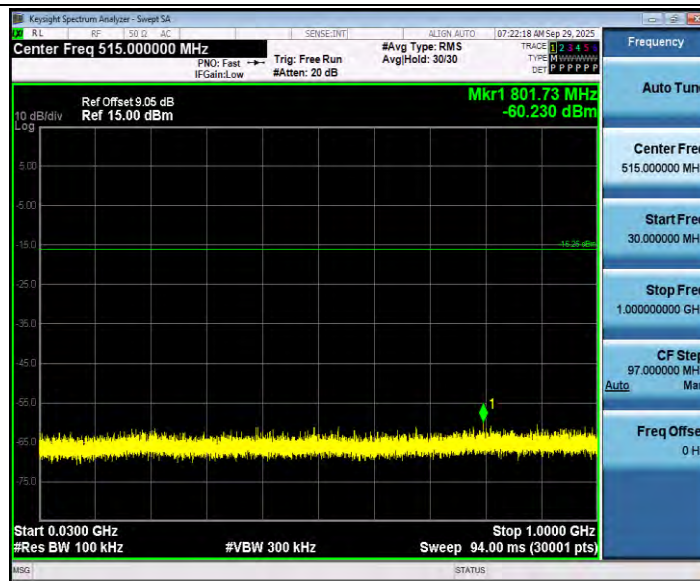
3DH1_Ant2_2402_0~Reference



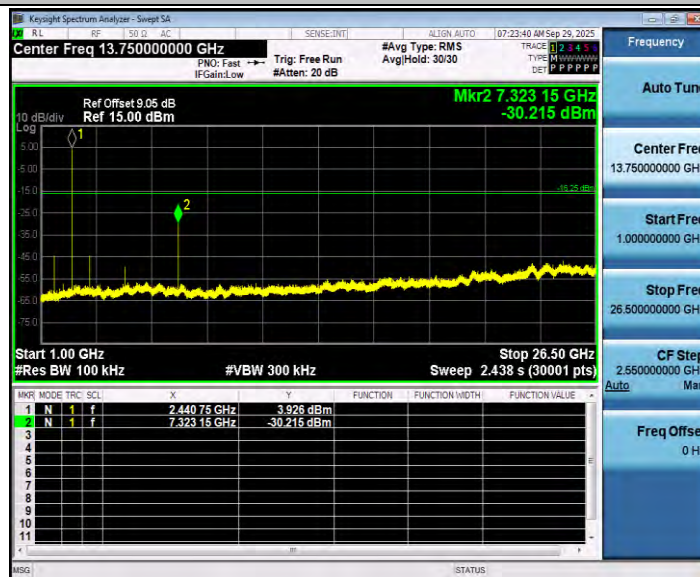
3DH1_Ant2_2402_30~1000





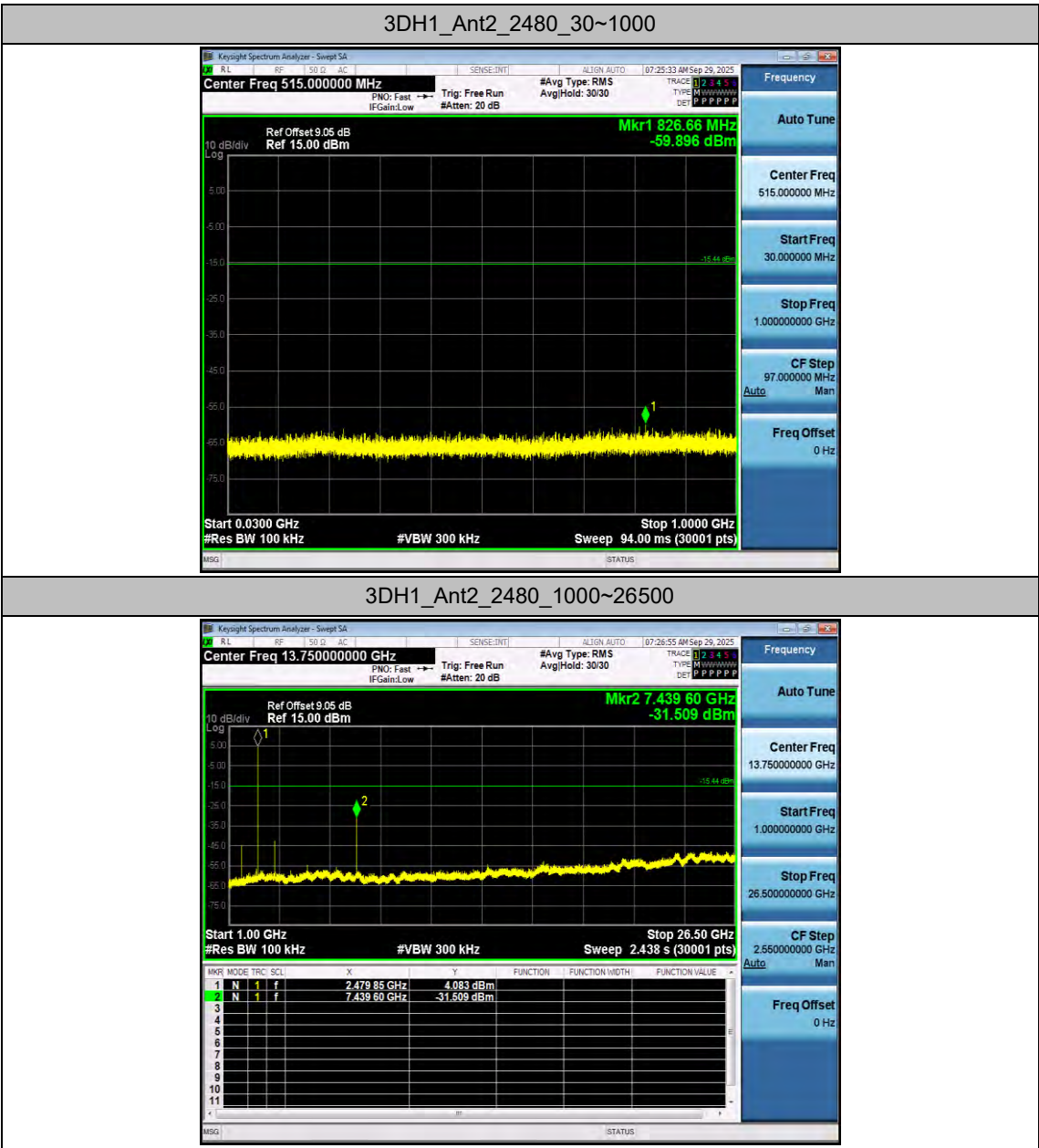


3DH1_Ant2_2441_1000~26500



3DH1_Ant2_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	Ant2	Low	2402	AV	2310.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	2388.620	-48.76	≤-41.20	46.44	≤54	PASS
				AV	2390.000	-48.86	≤-41.20	46.34	≤54	PASS
				Peak	2310.000	-42.16	≤-21.20	53.04	≤74	PASS
				Peak	2323.205	-38.96	≤-21.20	56.24	≤74	PASS
				Peak	2390.000	-40.58	≤-21.20	54.62	≤74	PASS
		High	2480	AV	2483.500	-47.55	≤-41.20	47.65	≤54	PASS
				AV	2483.520	-47.55	≤-41.20	47.65	≤54	PASS
				AV	2500.000	-48.76	≤-41.20	46.44	≤54	PASS
				Peak	2483.500	-39.13	≤-21.20	56.07	≤74	PASS
				Peak	2494.960	-38.37	≤-21.20	56.83	≤74	PASS
				Peak	2500.000	-40.33	≤-21.20	54.87	≤74	PASS
2DH1	Ant2	Low	2402	AV	2310.000	-49.26	≤-41.20	45.94	≤54	PASS
				AV	2380.220	-48.91	≤-41.20	46.29	≤54	PASS
				AV	2390.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2310.000	-42.99	≤-21.20	52.21	≤74	PASS
				Peak	2333.810	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2390.000	-41.46	≤-21.20	53.74	≤74	PASS
		High	2480	AV	2483.500	-48.05	≤-41.20	47.15	≤54	PASS
				AV	2483.520	-48.05	≤-41.20	47.15	≤54	PASS
				AV	2500.000	-48.82	≤-41.20	46.38	≤54	PASS
				Peak	2483.500	-40.65	≤-21.20	54.55	≤74	PASS
				Peak	2490.960	-38.5	≤-21.20	56.70	≤74	PASS
				Peak	2500.000	-40.08	≤-21.20	55.12	≤74	PASS
3DH1	Ant2	Low	2402	AV	2310.000	-49.34	≤-41.20	45.86	≤54	PASS
				AV	2383.790	-48.85	≤-41.20	46.35	≤54	PASS
				AV	2390.000	-49.05	≤-41.20	46.15	≤54	PASS
				Peak	2310.000	-40.47	≤-21.20	54.73	≤74	PASS
				Peak	2380.430	-38.9	≤-21.20	56.30	≤74	PASS
				Peak	2390.000	-40.06	≤-21.20	55.14	≤74	PASS
		High	2480	AV	2483.500	-48.01	≤-41.20	47.19	≤54	PASS
				AV	2483.520	-48.01	≤-41.20	47.19	≤54	PASS
				AV	2500.000	-48.75	≤-41.20	46.45	≤54	PASS
				Peak	2483.500	-40	≤-21.20	55.20	≤74	PASS
				Peak	2499.120	-38.34	≤-21.20	56.86	≤74	PASS

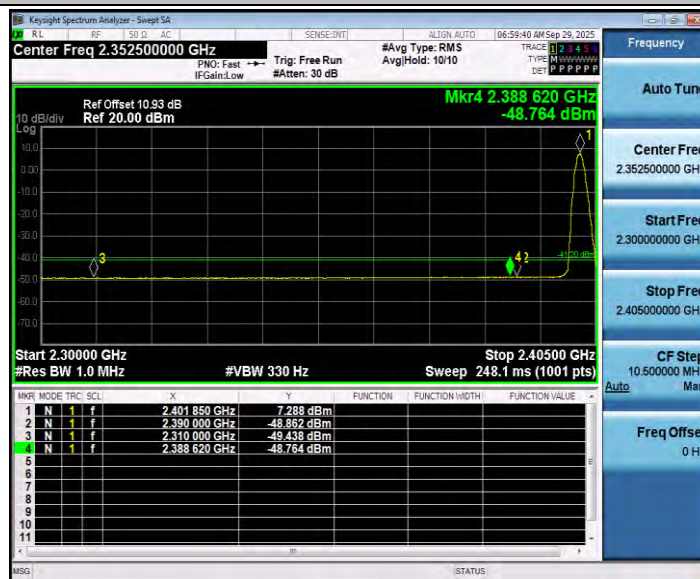
				Peak	2500.000	-40.73	≤ -21.20	54.47	≤ 74	PASS
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Note:

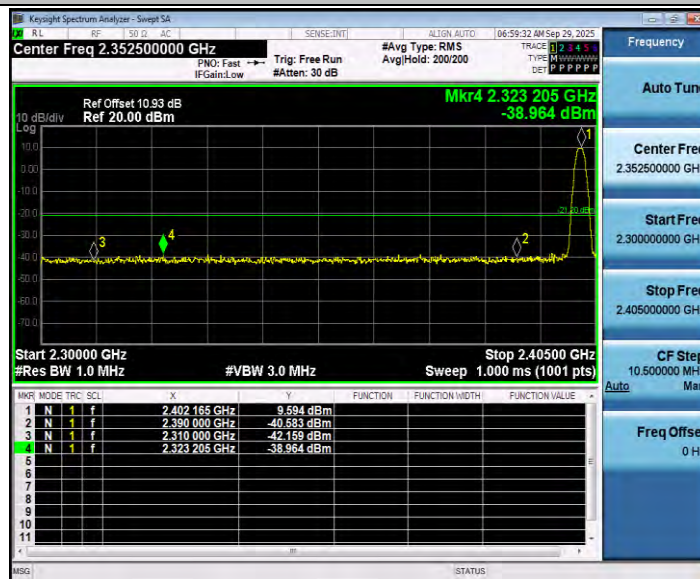
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

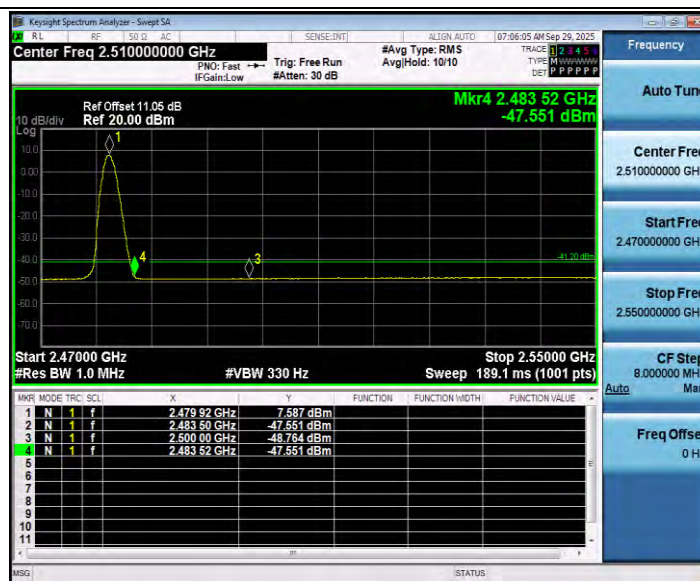
DH1_Ant2_Low_2402_AV



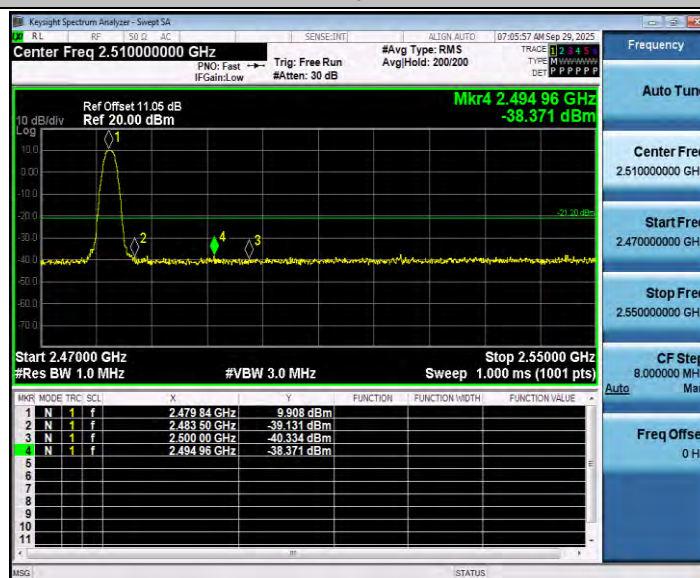
DH1_Ant2_Low_2402_Peak



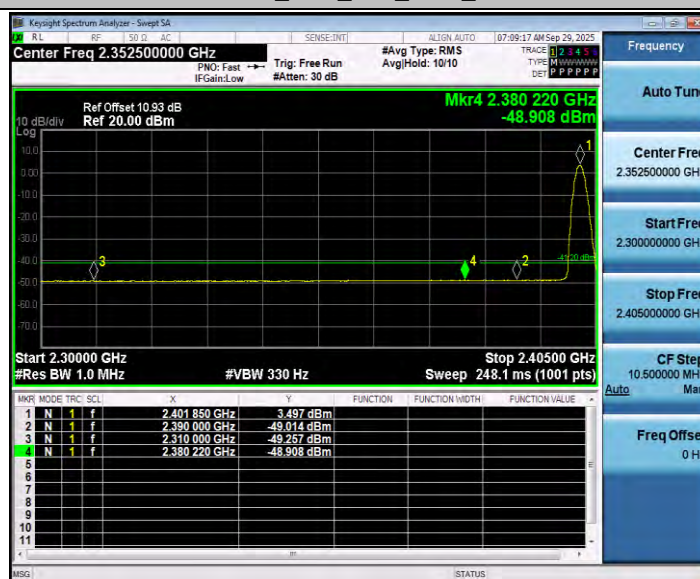
DH1_Ant2_High_2480_AV



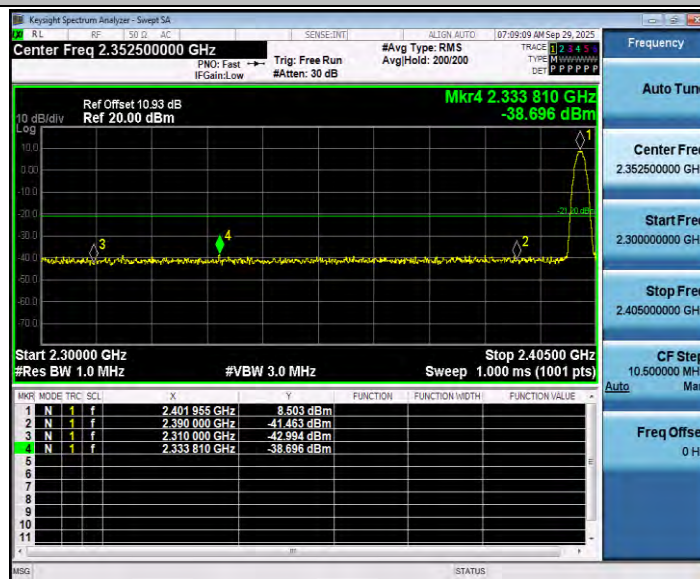
DH1_Ant2_High_2480_Peak



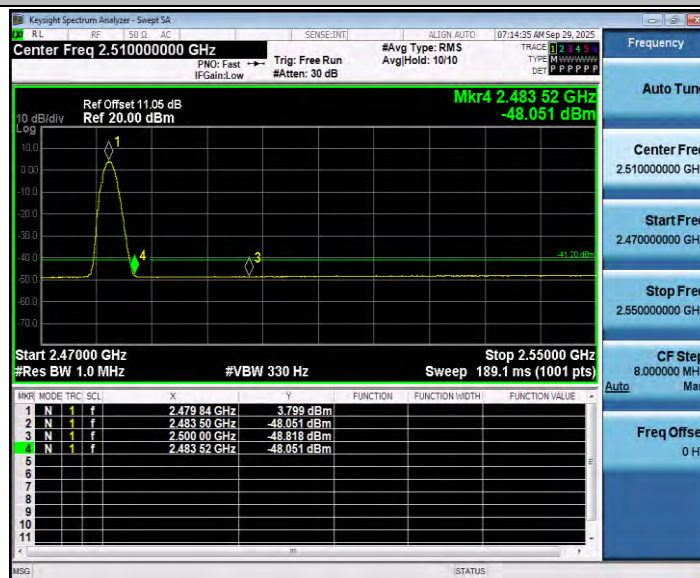
2DH1_Ant2_Low_2402_AV



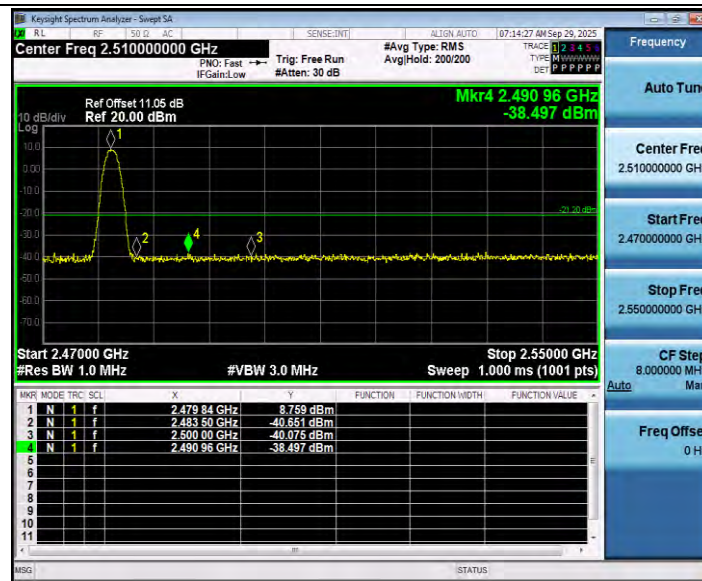
2DH1_Ant2_Low_2402_Peak



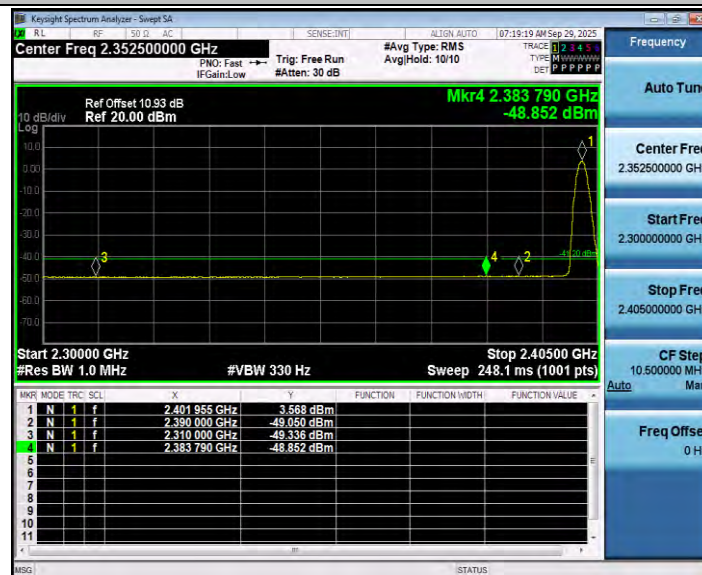
2DH1_Ant2_High_2480_AV



2DH1_Ant2_High_2480_Peak



3DH1_Ant2_Low_2402_AV



3DH1_Ant2_Low_2402_Peak

