

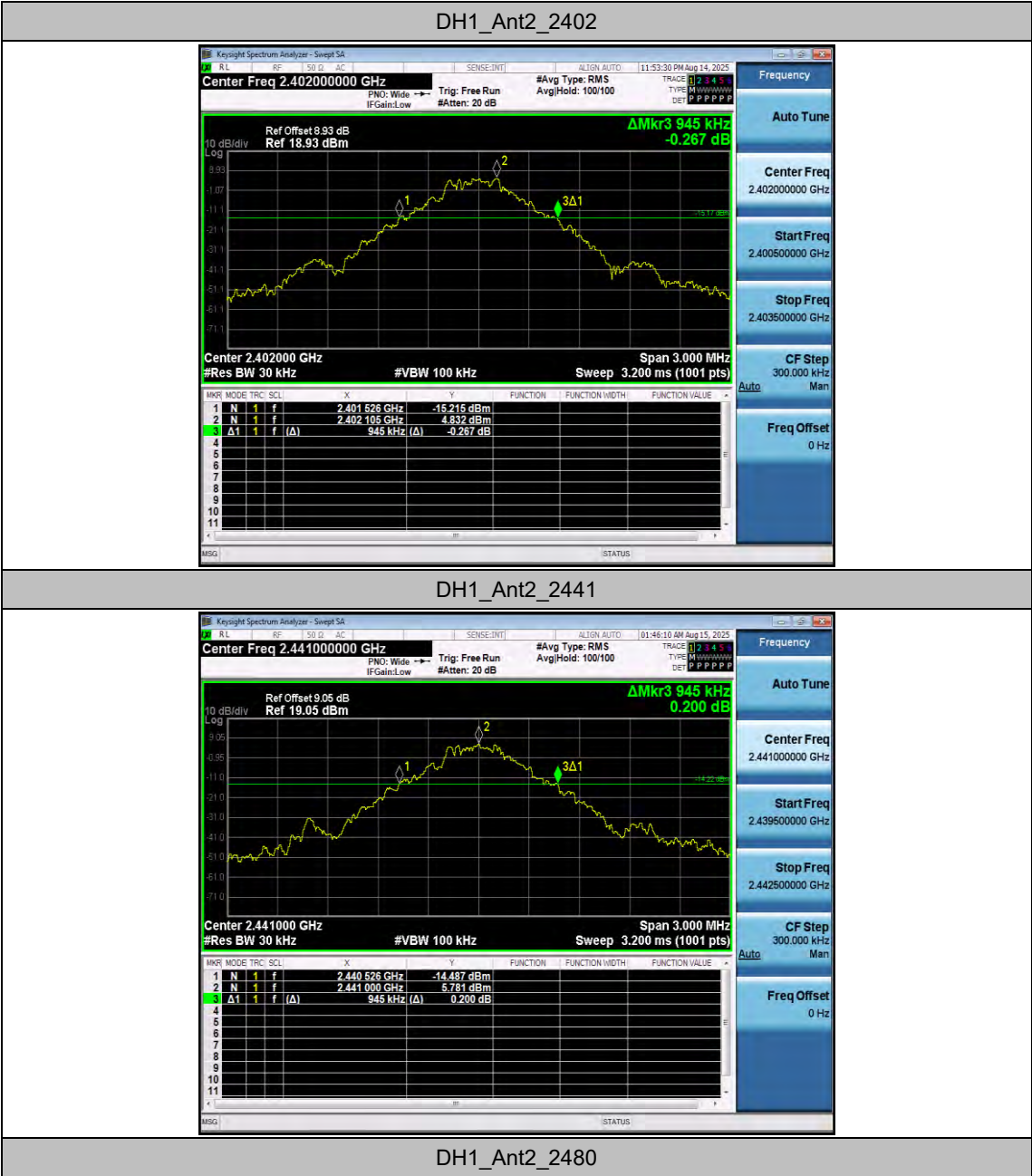
Case No. : <u>GTS20250724007-3-01</u>
Ambient Condition: <u>22</u> °C, <u>53</u> %RH
According Standard: <u>■Part15C</u>
Test Date: <u>2025.8.4-2025.8.29</u> Test Engineer: <u>Evan ouyang</u>

AppendixA.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant2	2402	0.945	2401.526	2402.471	---	---
		2441	0.945	2440.526	2441.471	---	---
		2480	0.939	2479.535	2480.474	---	---
2DH1	Ant2	2402	1.311	2401.331	2402.642	---	---
		2441	1.299	2440.328	2441.627	---	---
		2480	1.296	2479.328	2480.624	---	---
3DH1	Ant2	2402	1.275	2401.355	2402.630	---	---
		2441	1.278	2440.349	2441.627	---	---
		2480	1.272	2479.352	2480.624	---	---

Test Graphs





2DH1_Ant2_2402



2DH1_Ant2_2441



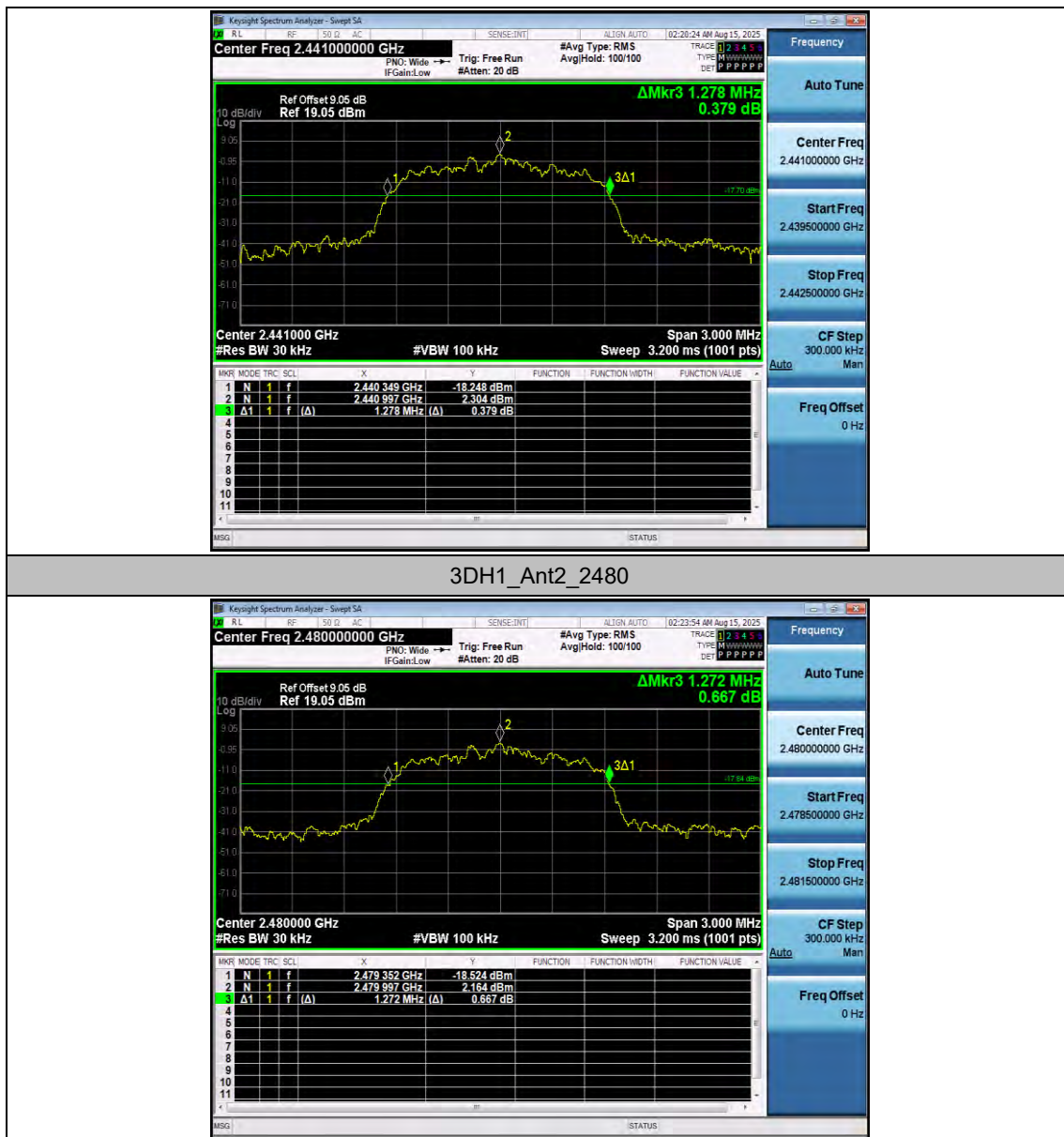
2DH1_Ant2_2480



3DH1_Ant2_2402



3DH1_Ant2_2441

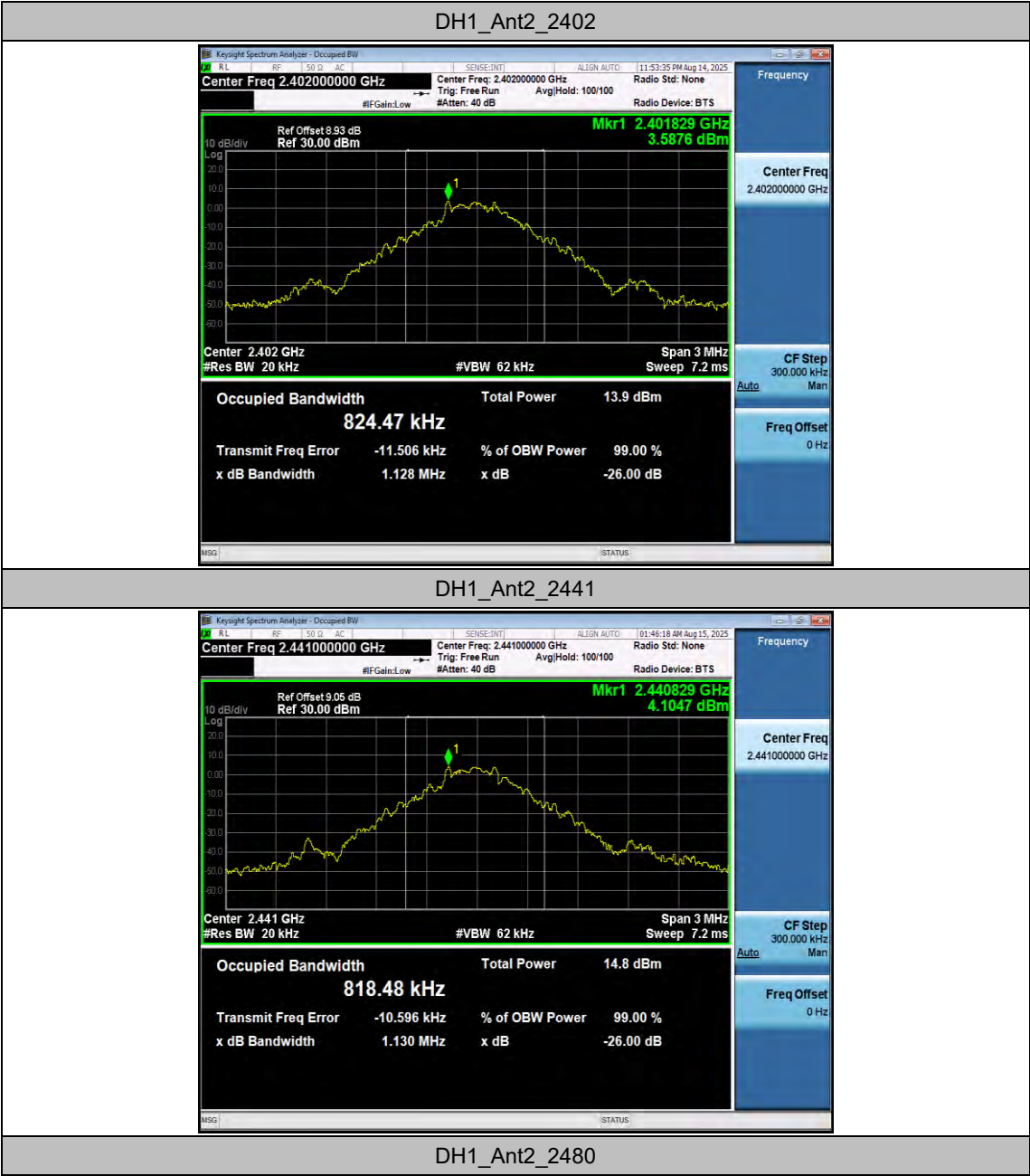


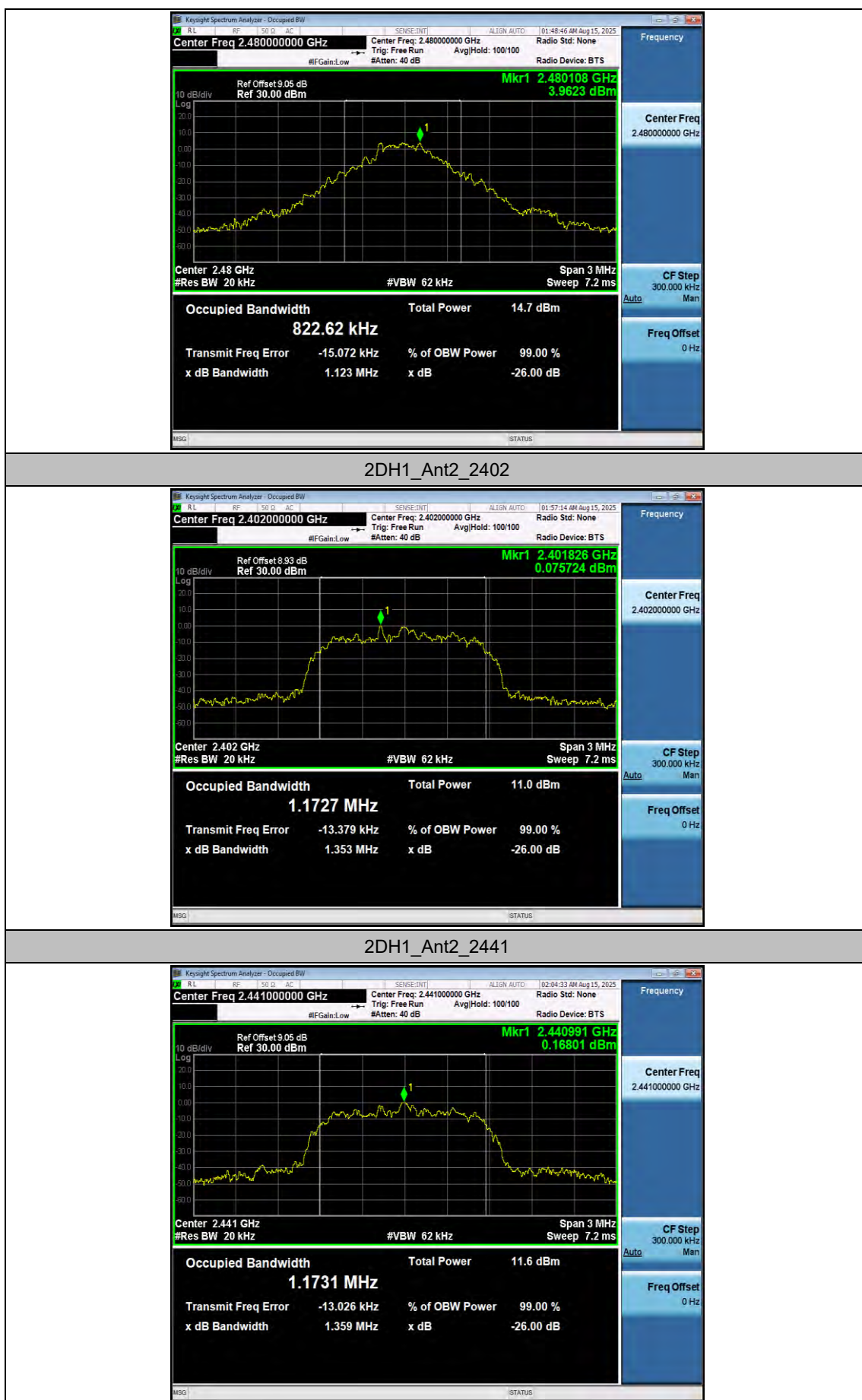
AppendixA.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant2	2402	0.82447	2401.5763	2402.4007	---	---
		2441	0.81848	2440.5802	2441.3986	---	---
		2480	0.82262	2479.5736	2480.3962	---	---
2DH1	Ant2	2402	1.1727	2401.4003	2402.5730	---	---
		2441	1.1731	2440.4004	2441.5735	---	---
		2480	1.1790	2479.3928	2480.5718	---	---
3DH1	Ant2	2402	1.1619	2401.4234	2402.5853	---	---
		2441	1.1634	2440.4200	2441.5834	---	---
		2480	1.1668	2479.4170	2480.5838	---	---

Test Graphs





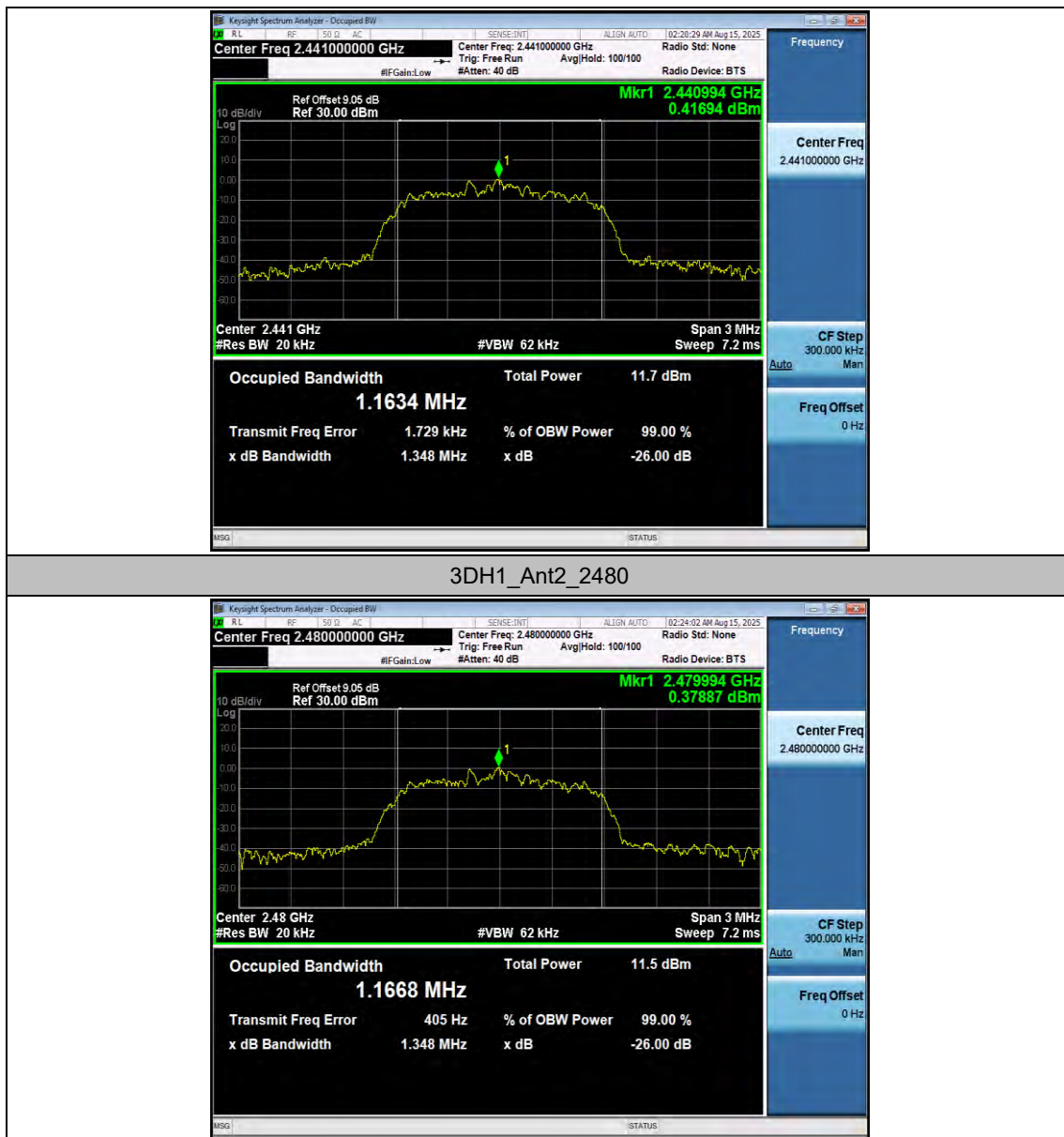
2DH1_Ant2_2480



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	9.03	≤20.97	PASS
		2441	9.81	≤20.97	PASS
		2480	9.77	≤20.97	PASS
2DH1	Ant2	2402	8.17	≤20.97	PASS
		2441	8.93	≤20.97	PASS
		2480	8.92	≤20.97	PASS
3DH1	Ant2	2402	8.47	≤20.97	PASS
		2441	9.26	≤20.97	PASS
		2480	9.24	≤20.97	PASS

AppendixA.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant2	Hop_2402	0.692	≥ 0.630	PASS
		Hop_2441	0.818	≥ 0.630	PASS
		Hop_2480	0.682	≥ 0.630	PASS
2DH1	Ant2	Hop_2402	1.008	≥ 0.874	PASS
		Hop_2441	0.992	≥ 0.874	PASS
		Hop_2480	1.012	≥ 0.874	PASS
3DH1	Ant2	Hop_2402	1.154	≥ 0.852	PASS
		Hop_2441	1.008	≥ 0.852	PASS
		Hop_2480	1.192	≥ 0.852	PASS

Test Graphs

DH1_Ant2_Hop_2402



DH1_Ant2_Hop_2441



DH1_Ant2_Hop_2480



2DH1_Ant2_Hop_2402



2DH1_Ant2_Hop_2441



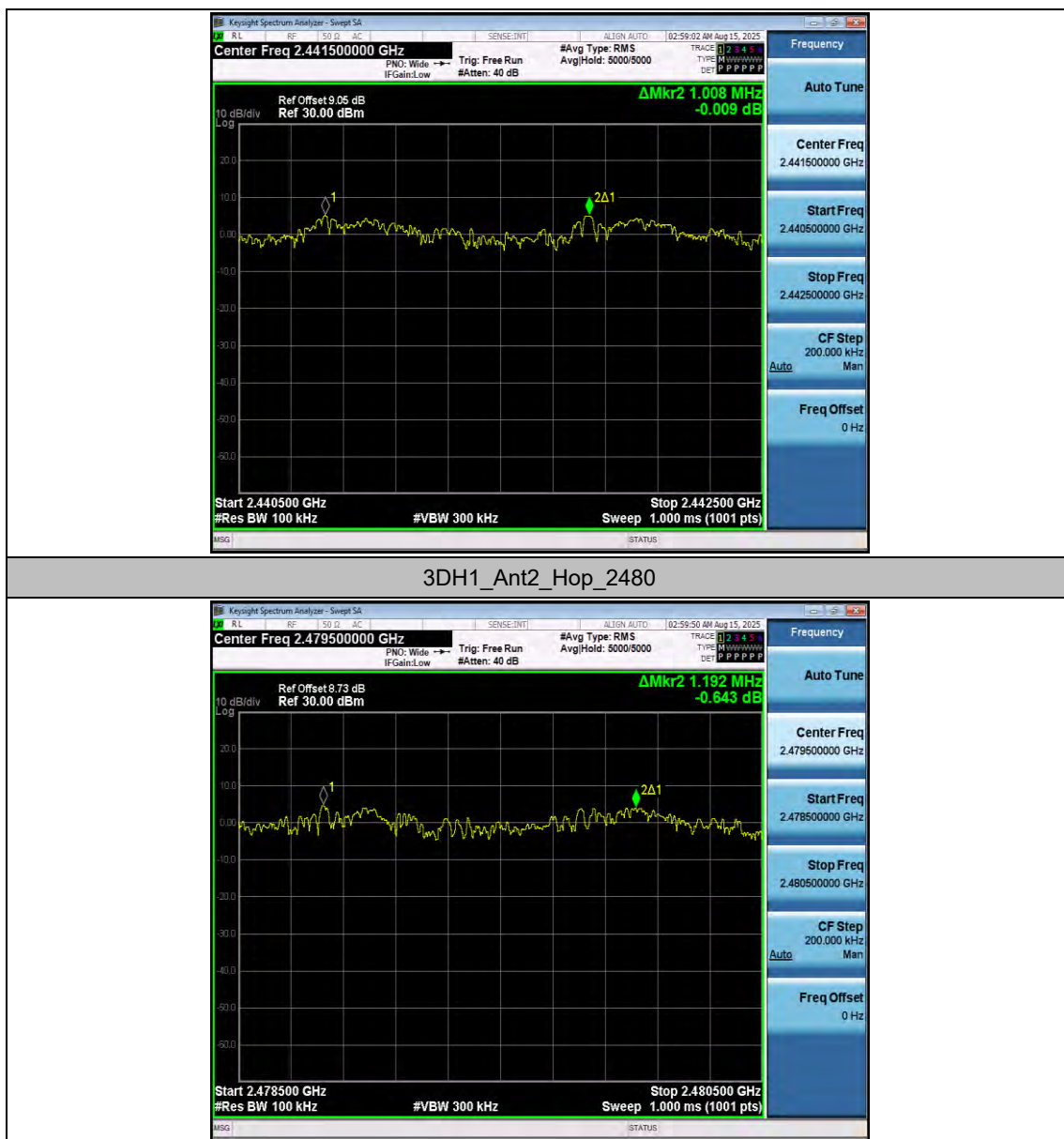
2DH1_Ant2_Hop_2480



3DH1_Ant2_Hop_2402



3DH1_Ant2_Hop_2441

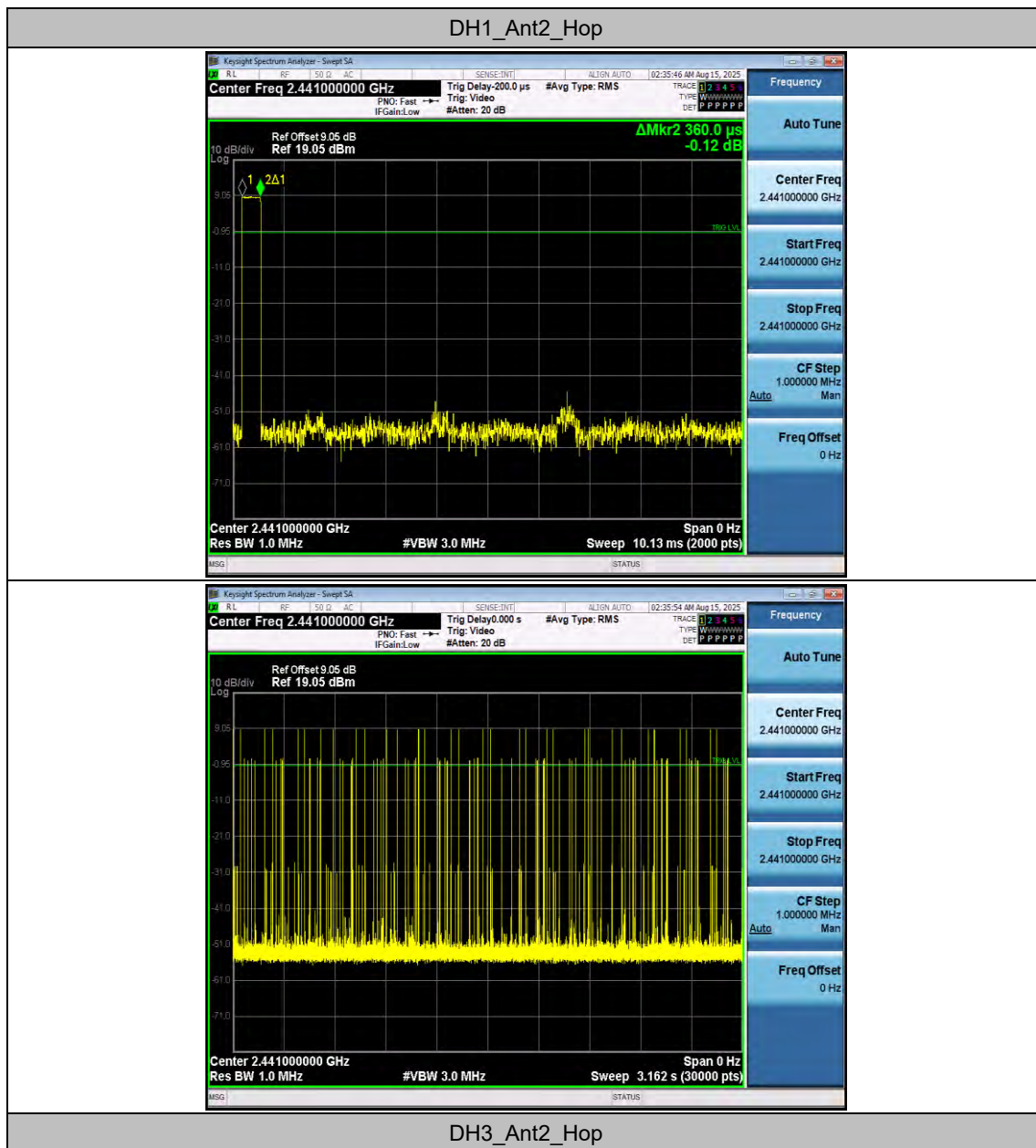


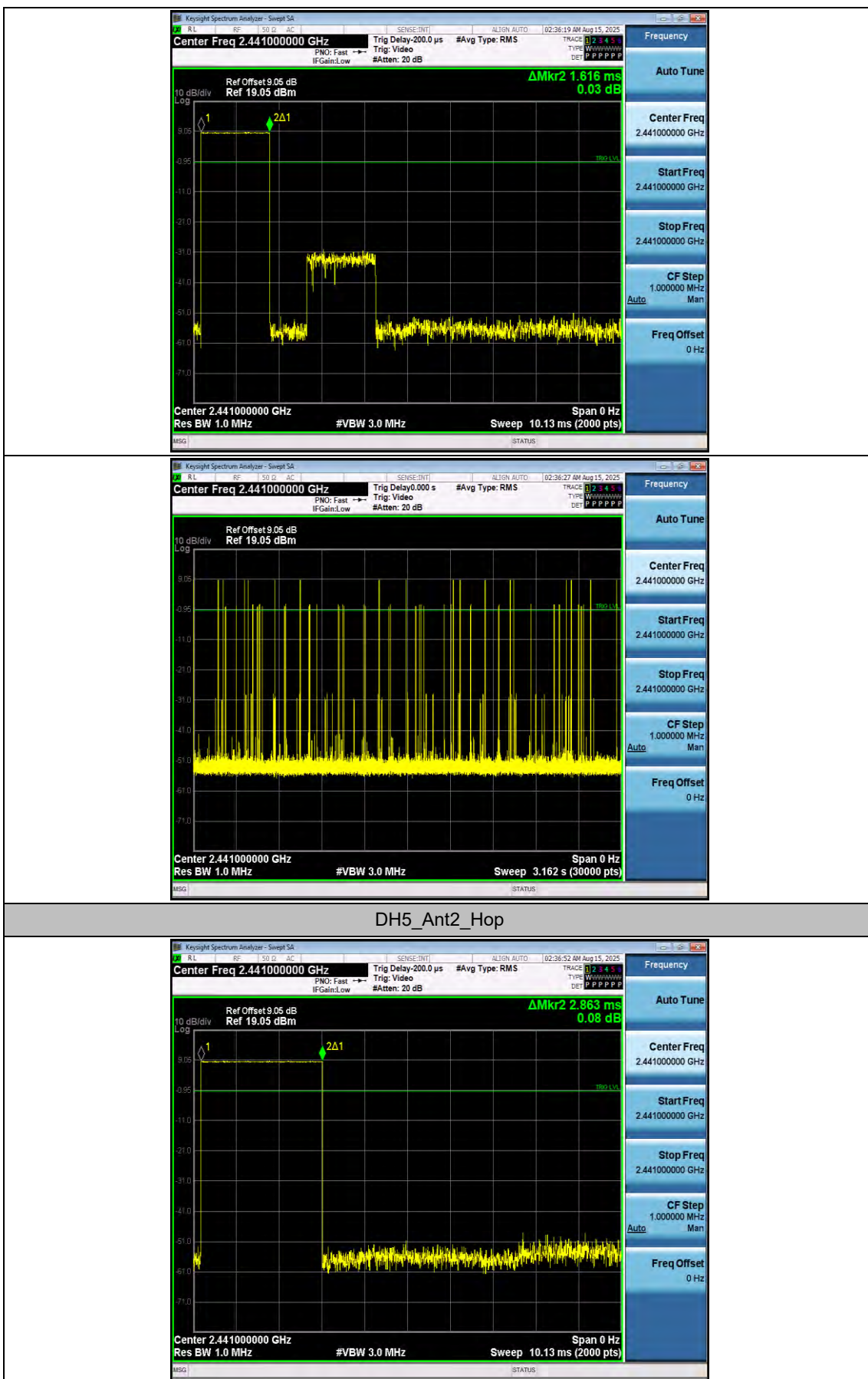
AppendixA.5: Time of occupancy

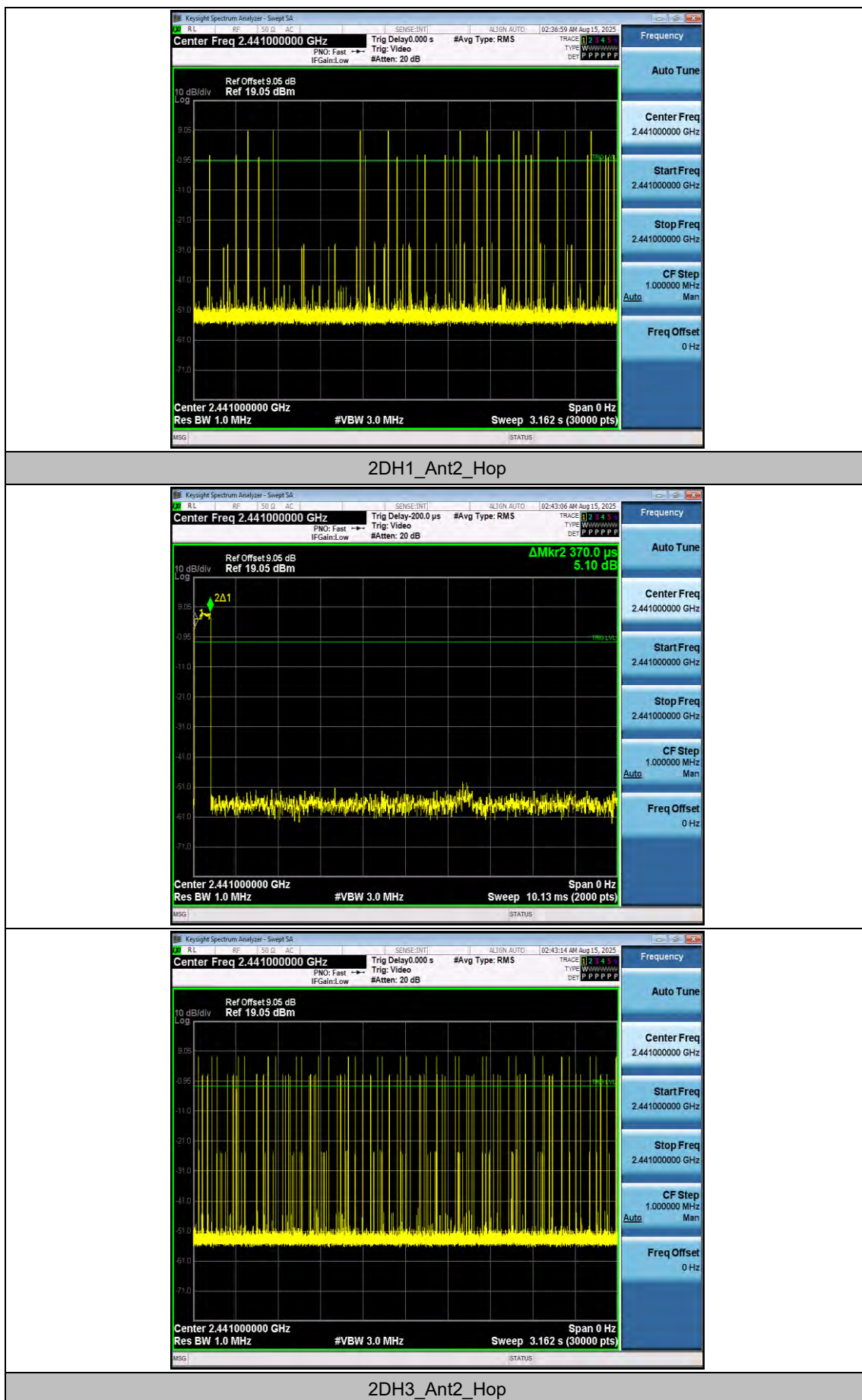
Test Result

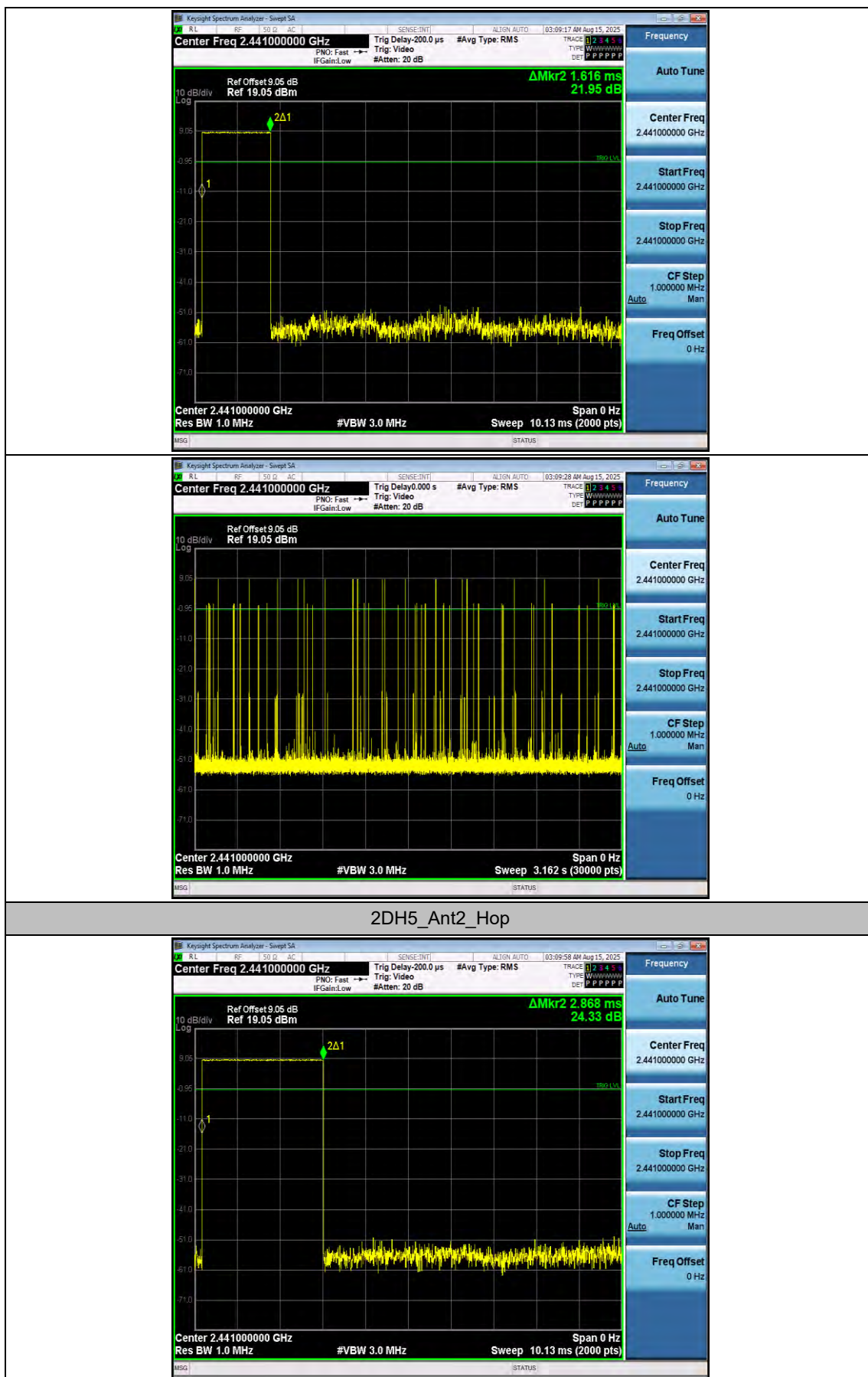
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant2	Hop	0.360	320	0.115	≤0.4	PASS
DH3	Ant2	Hop	1.616	180	0.291	≤0.4	PASS
DH5	Ant2	Hop	2.863	120	0.344	≤0.4	PASS
2DH1	Ant2	Hop	0.370	320	0.118	≤0.4	PASS
2DH3	Ant2	Hop	1.616	180	0.291	≤0.4	PASS
2DH5	Ant2	Hop	2.868	100	0.287	≤0.4	PASS
3DH1	Ant2	Hop	0.360	320	0.115	≤0.4	PASS
3DH3	Ant2	Hop	1.616	180	0.291	≤0.4	PASS
3DH5	Ant2	Hop	2.863	130	0.372	≤0.4	PASS

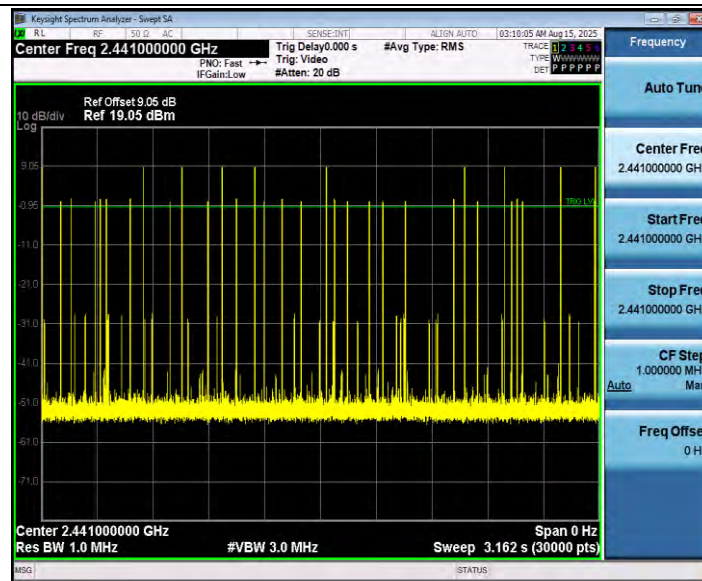
Test Graphs



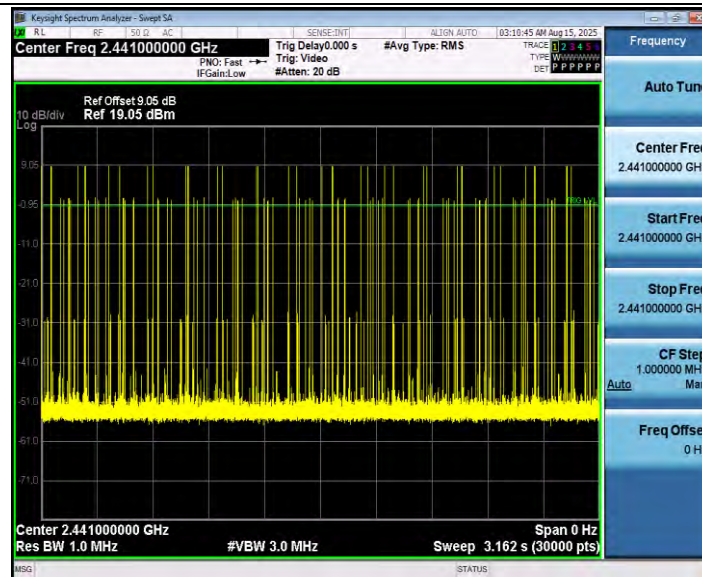
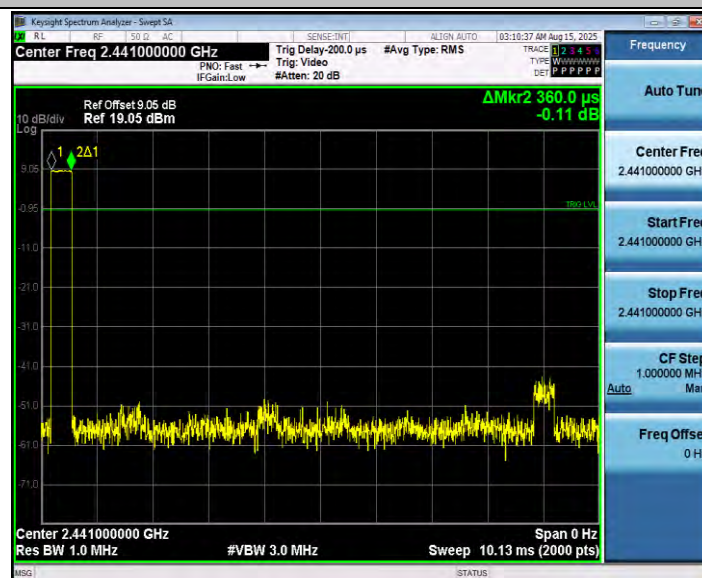




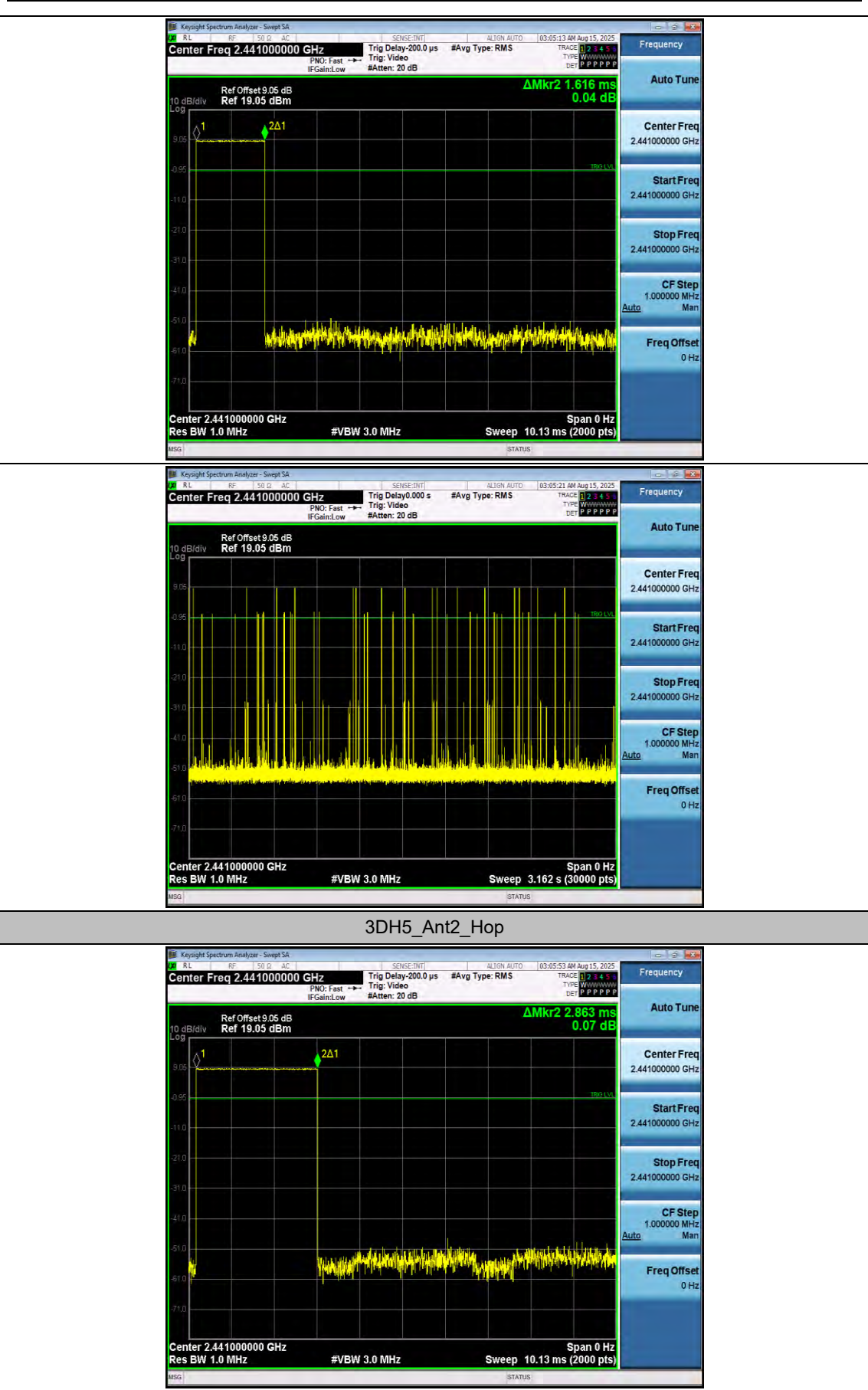




3DH1_Ant2_Hop



3DH3_Ant2_Hop



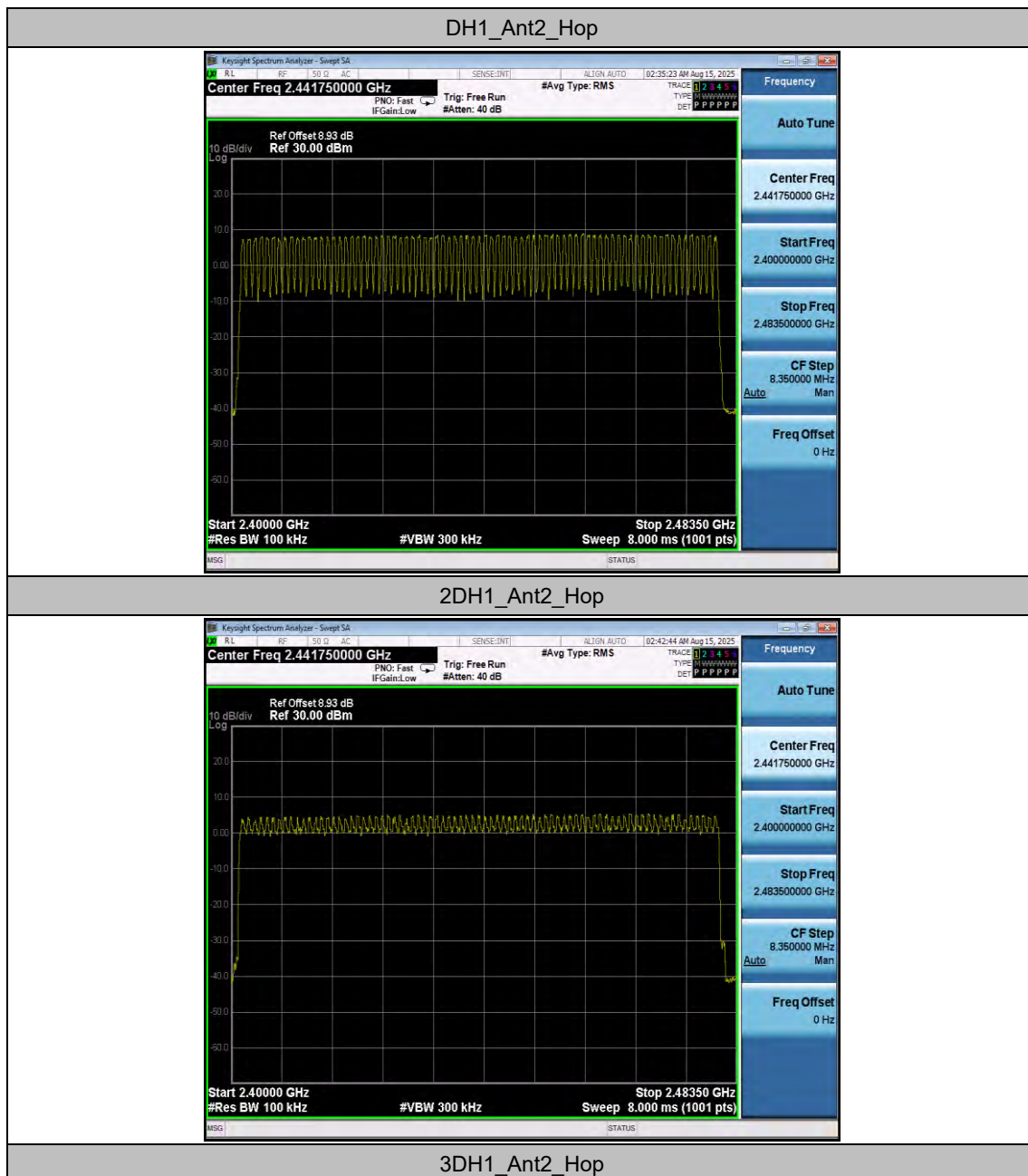


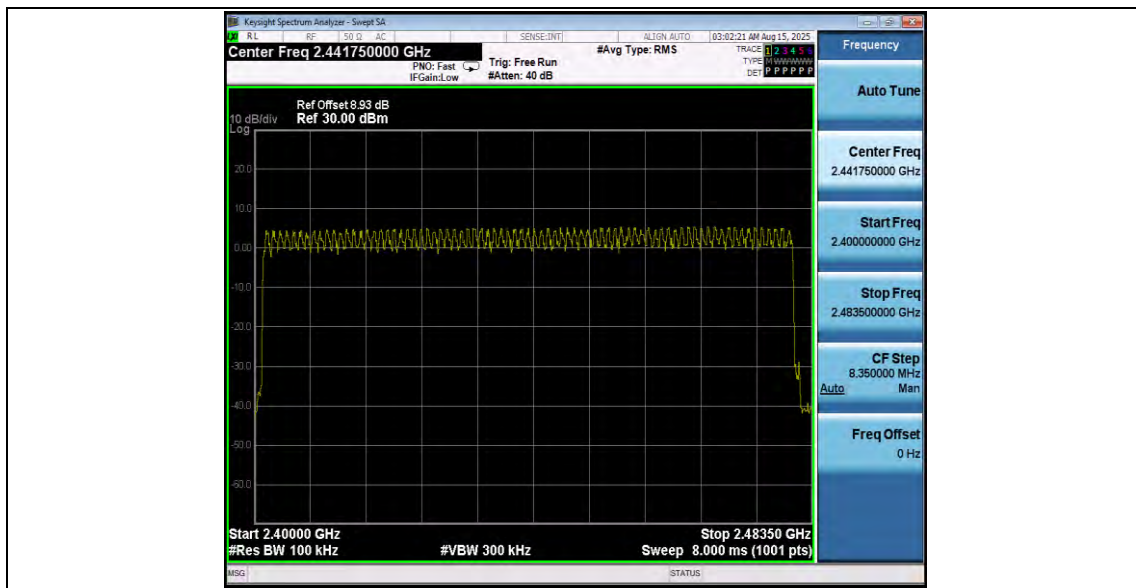
AppendixA.6: Number of hopping channels

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





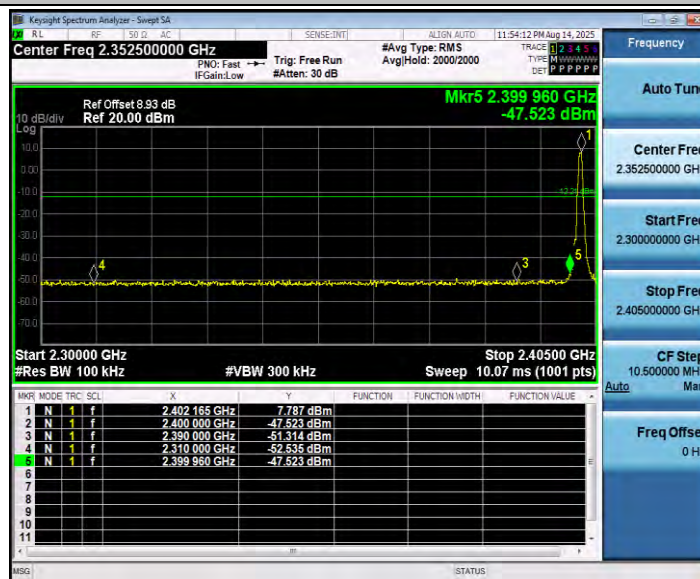
Appendix A.7: Band edge measurements

Test Result

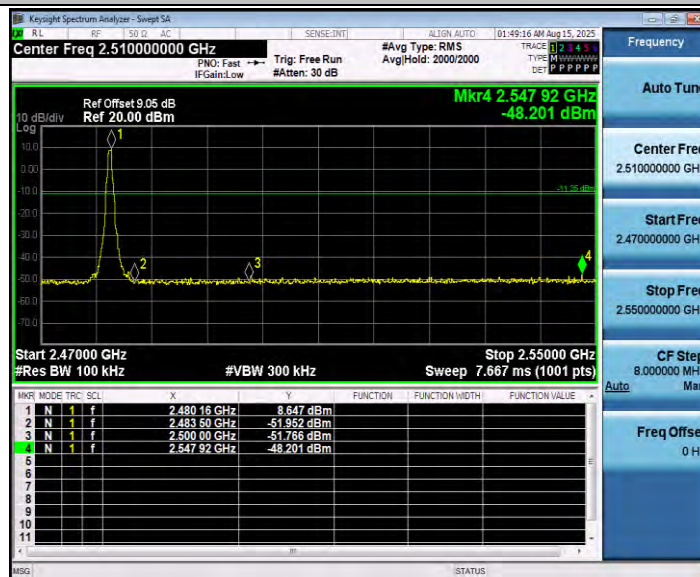
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant2	Low	2402	7.79	-47.52	≤-12.21	PASS
		High	2480	8.65	-48.2	≤-11.35	PASS
		Low	Hop_2402	7.59	-49.17	≤-12.41	PASS
		High	Hop_2480	5.20	-48.75	≤-14.8	PASS
2DH1	Ant2	Low	2402	4.25	-47.33	≤-15.75	PASS
		High	2480	5.11	-49.12	≤-14.89	PASS
		Low	Hop_2402	4.26	-49.19	≤-15.74	PASS
		High	Hop_2480	5.17	-48.9	≤-14.83	PASS
3DH1	Ant2	Low	2402	4.30	-48.9	≤-15.7	PASS
		High	2480	5.14	-48.52	≤-14.86	PASS
		Low	Hop_2402	2.97	-48.91	≤-17.03	PASS
		High	Hop_2480	8.63	-49	≤-11.37	PASS

Test Graphs

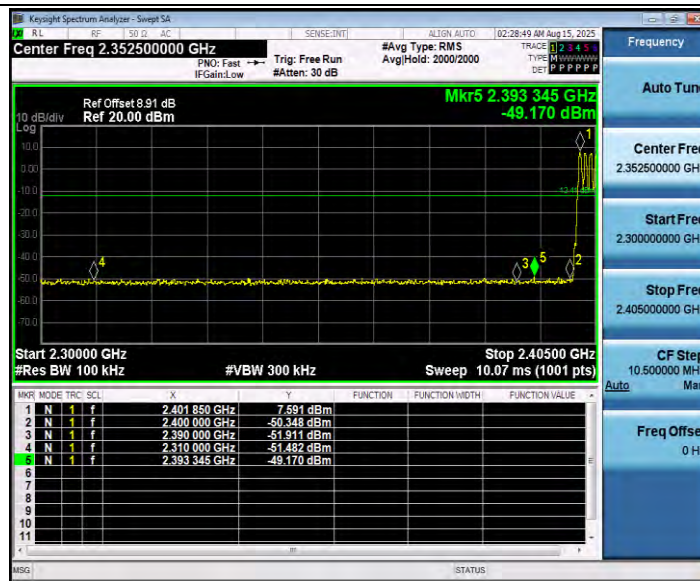
DH1_Ant2_Low_2402



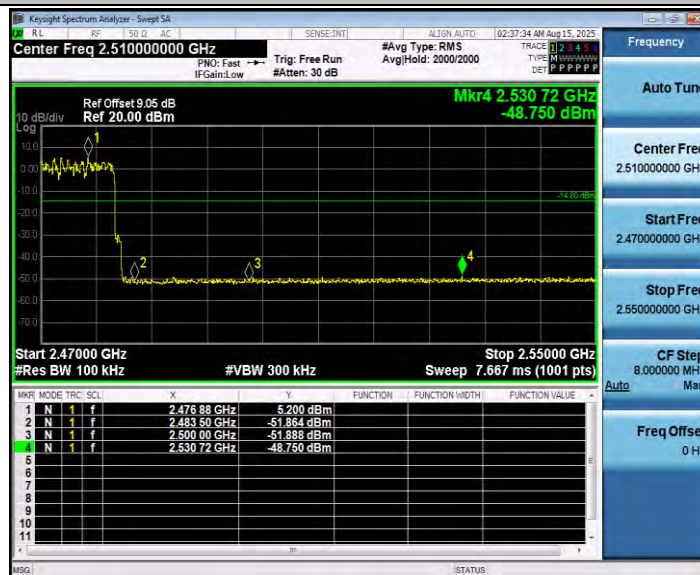
DH1_Ant2_High_2480



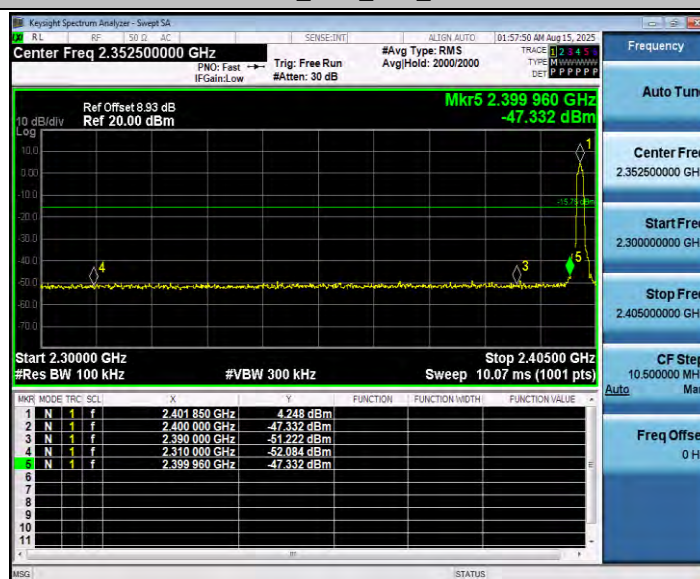
DH1_Ant2_Low_Hop_2402



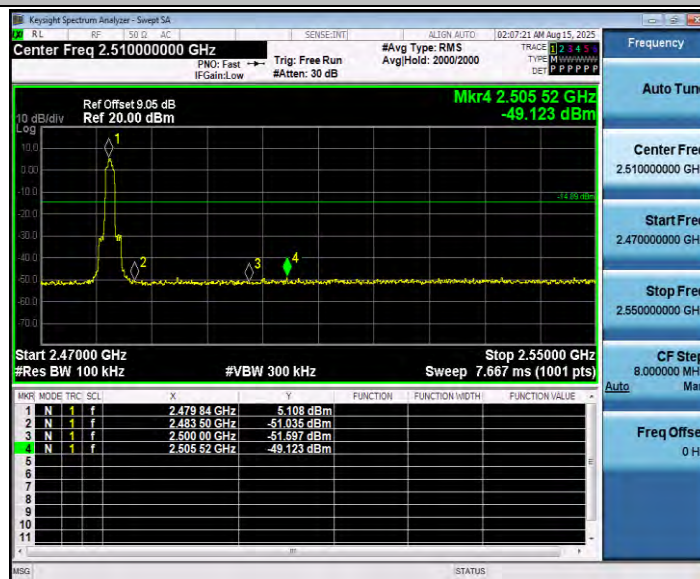
DH1_Ant2_High_Hop_2480



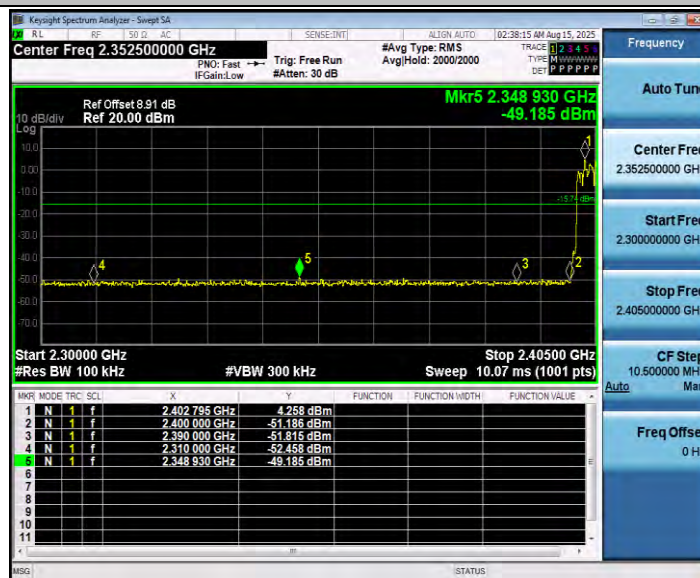
2DH1_Ant2_Low_2402



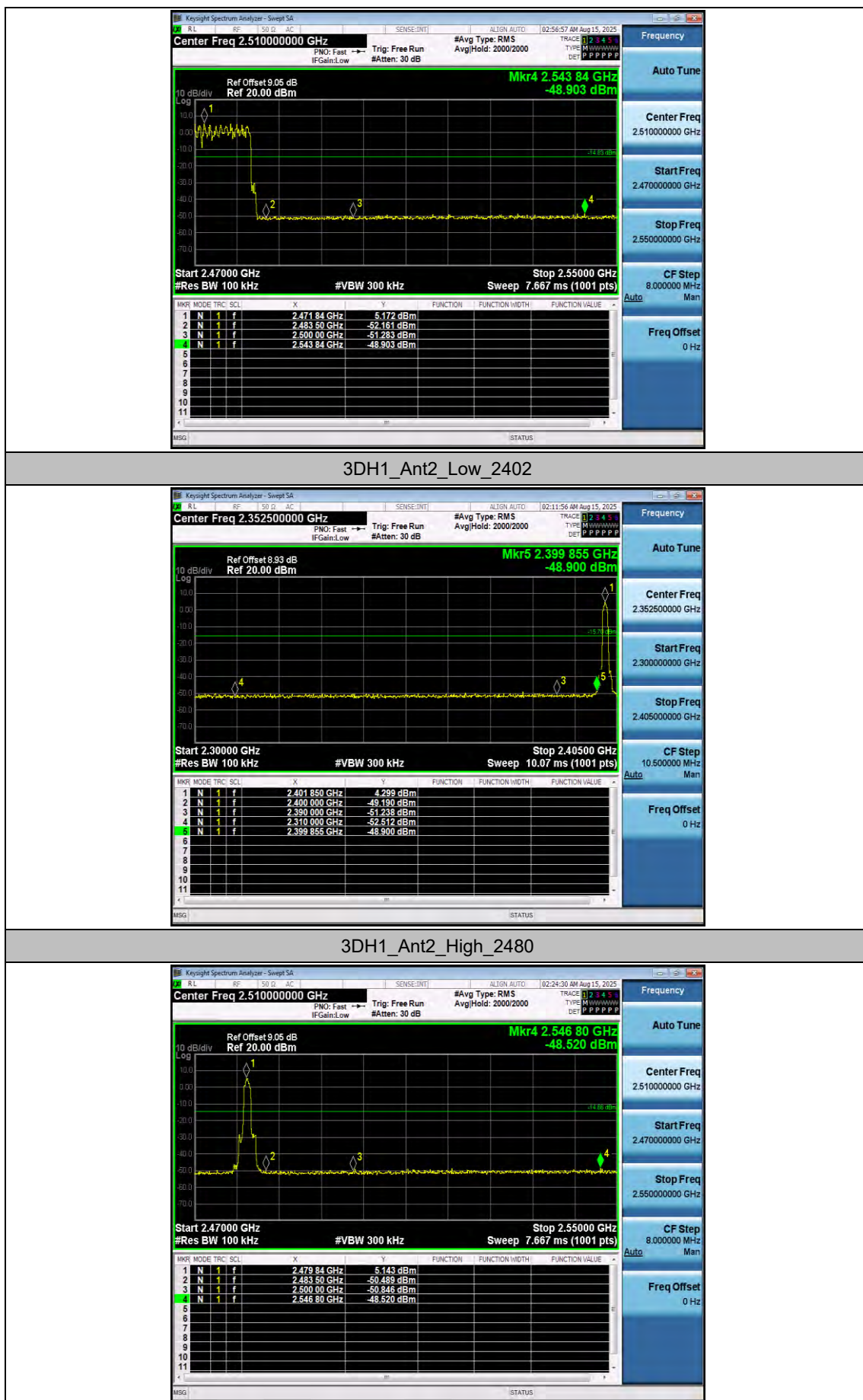
2DH1_Ant2_High_2480



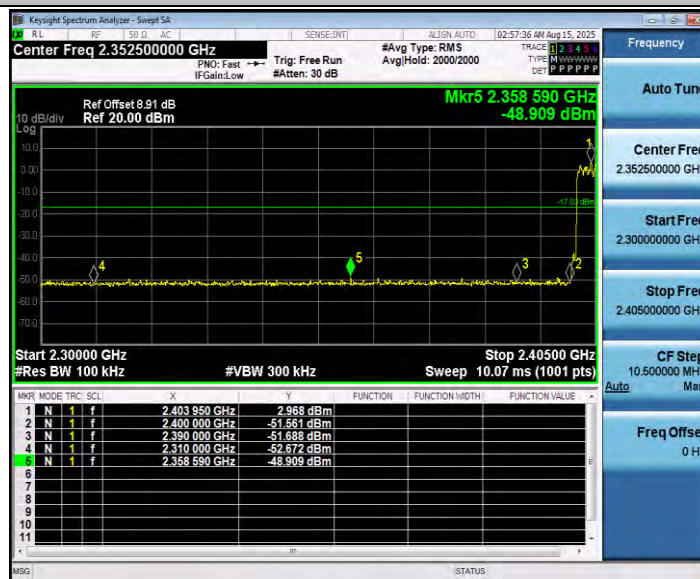
2DH1_Ant2_Low_Hop_2402



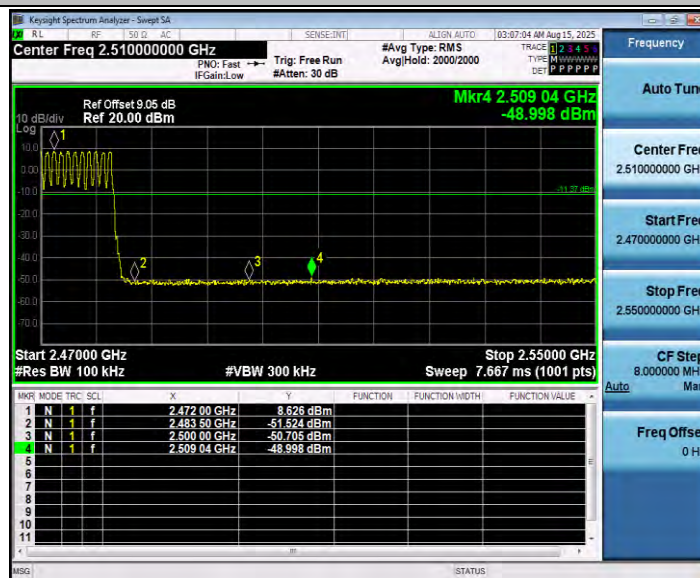
2DH1_Ant2_High_Hop_2480



3DH1_Ant2_Low_Hop_2402



3DH1_Ant2_High_Hop_2480

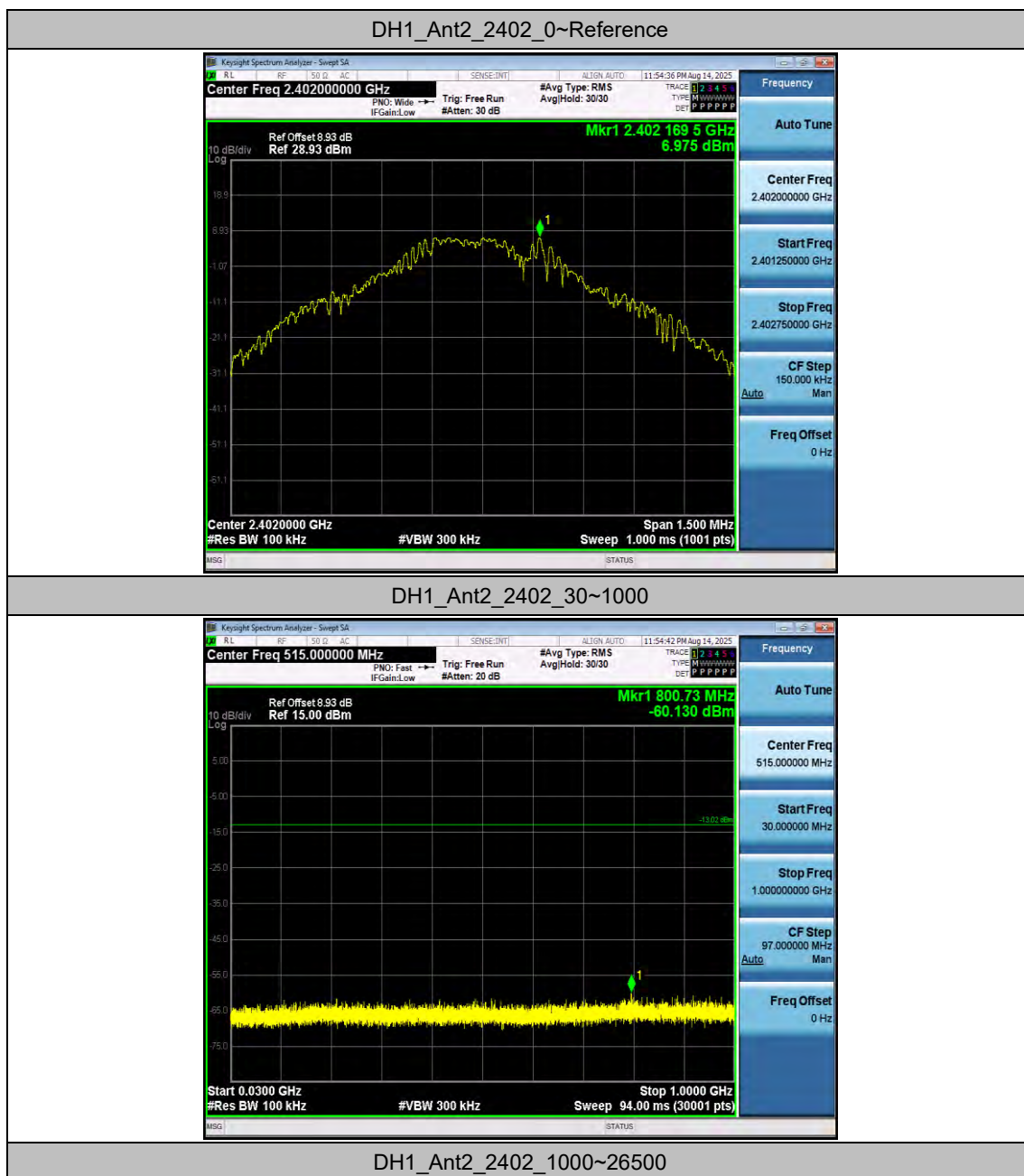


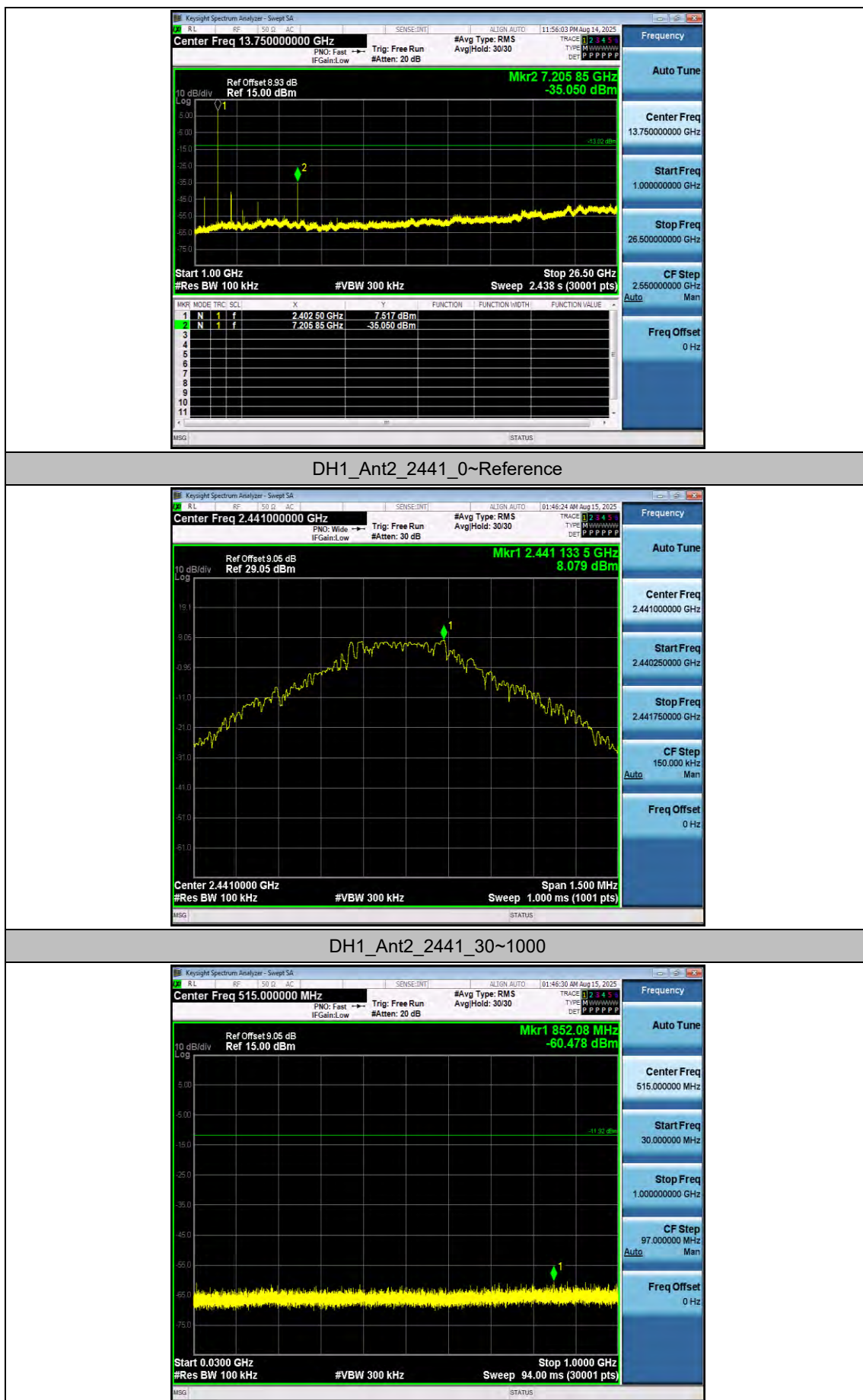
Appendix A.8: Conducted Spurious Emission

Test Result

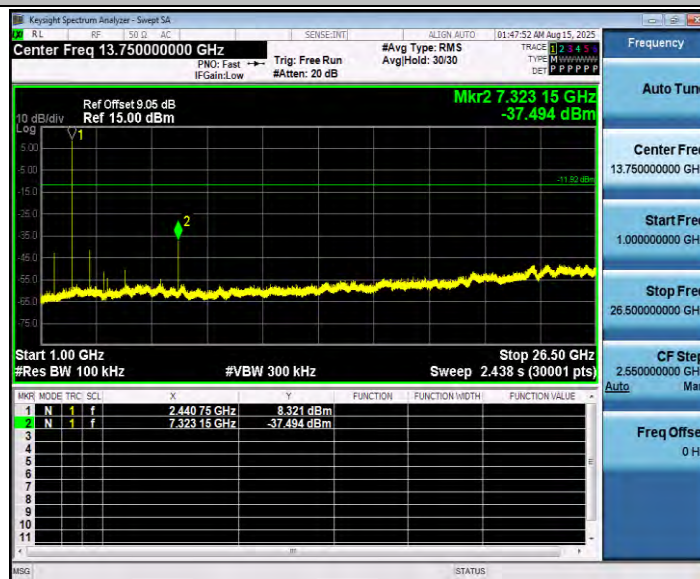
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant2	2402	Reference	6.98	6.98	---	PASS
			30~1000	6.98	-60.13	≤-13.02	PASS
			1000~26500	6.98	-35.05	≤-13.02	PASS
		2441	Reference	8.08	8.08	---	PASS
			30~1000	8.08	-60.48	≤-11.92	PASS
			1000~26500	8.08	-37.49	≤-11.92	PASS
		2480	Reference	8.09	8.09	---	PASS
			30~1000	8.09	-60.45	≤-11.91	PASS
			1000~26500	8.09	-36.58	≤-11.91	PASS
2DH1	Ant2	2402	Reference	3.95	3.95	---	PASS
			30~1000	3.95	-61.11	≤-16.05	PASS
			1000~26500	3.95	-38.45	≤-16.05	PASS
		2441	Reference	3.84	3.84	---	PASS
			30~1000	3.84	-60.48	≤-16.16	PASS
			1000~26500	3.84	-42.04	≤-16.16	PASS
		2480	Reference	4.25	4.25	---	PASS
			30~1000	4.25	-60.88	≤-15.75	PASS
			1000~26500	4.25	-42.03	≤-15.75	PASS
3DH1	Ant2	2402	Reference	4.21	4.21	---	PASS
			30~1000	4.21	-60.56	≤-15.79	PASS
			1000~26500	4.21	-38.48	≤-15.79	PASS
		2441	Reference	4.27	4.27	---	PASS
			30~1000	4.27	-60.44	≤-15.73	PASS
			1000~26500	4.27	-42.05	≤-15.73	PASS
		2480	Reference	4.25	4.25	---	PASS
			30~1000	4.25	-60.64	≤-15.75	PASS
			1000~26500	4.25	-39.83	≤-15.75	PASS

Test Graphs





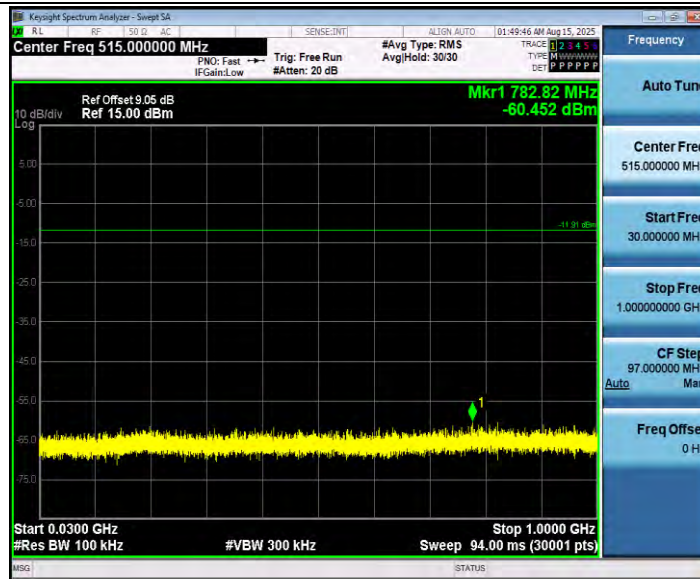
DH1_Ant2_2441_1000~26500



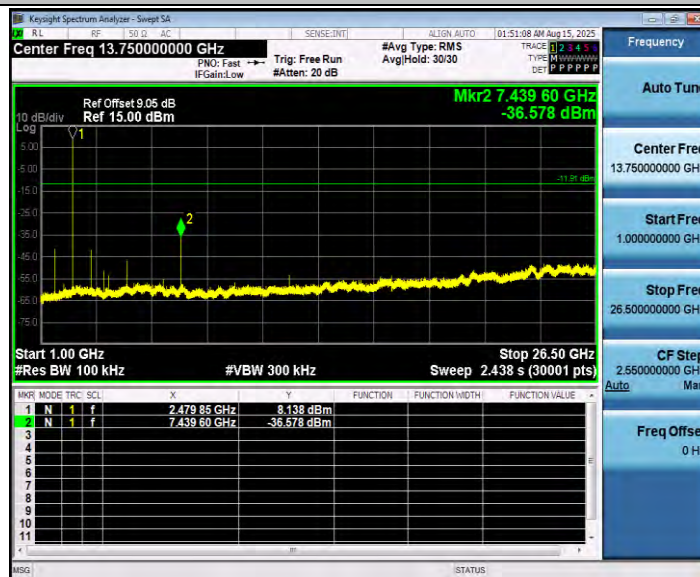
DH1_Ant2_2480_0~Reference



DH1_Ant2_2480_30~1000

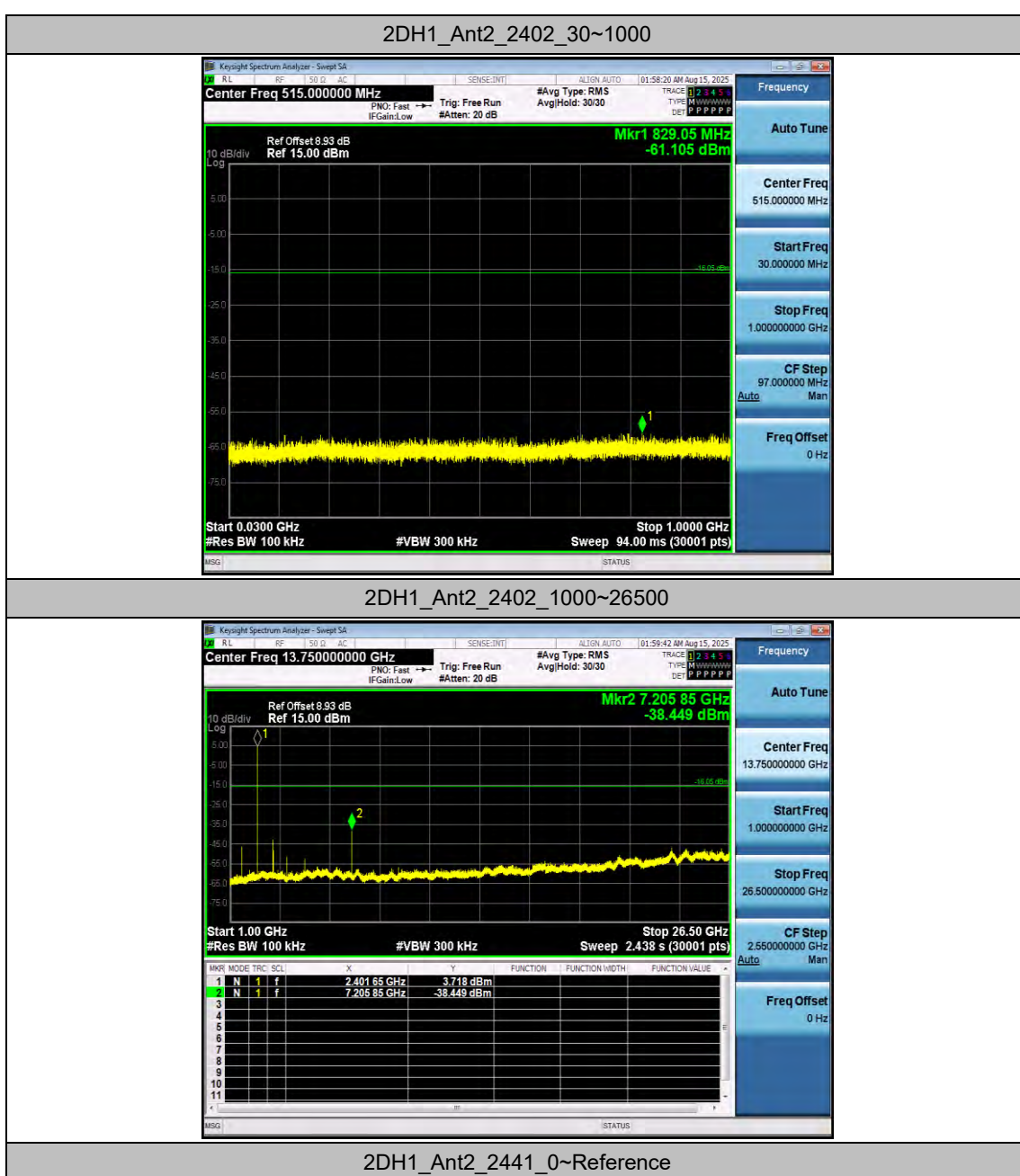


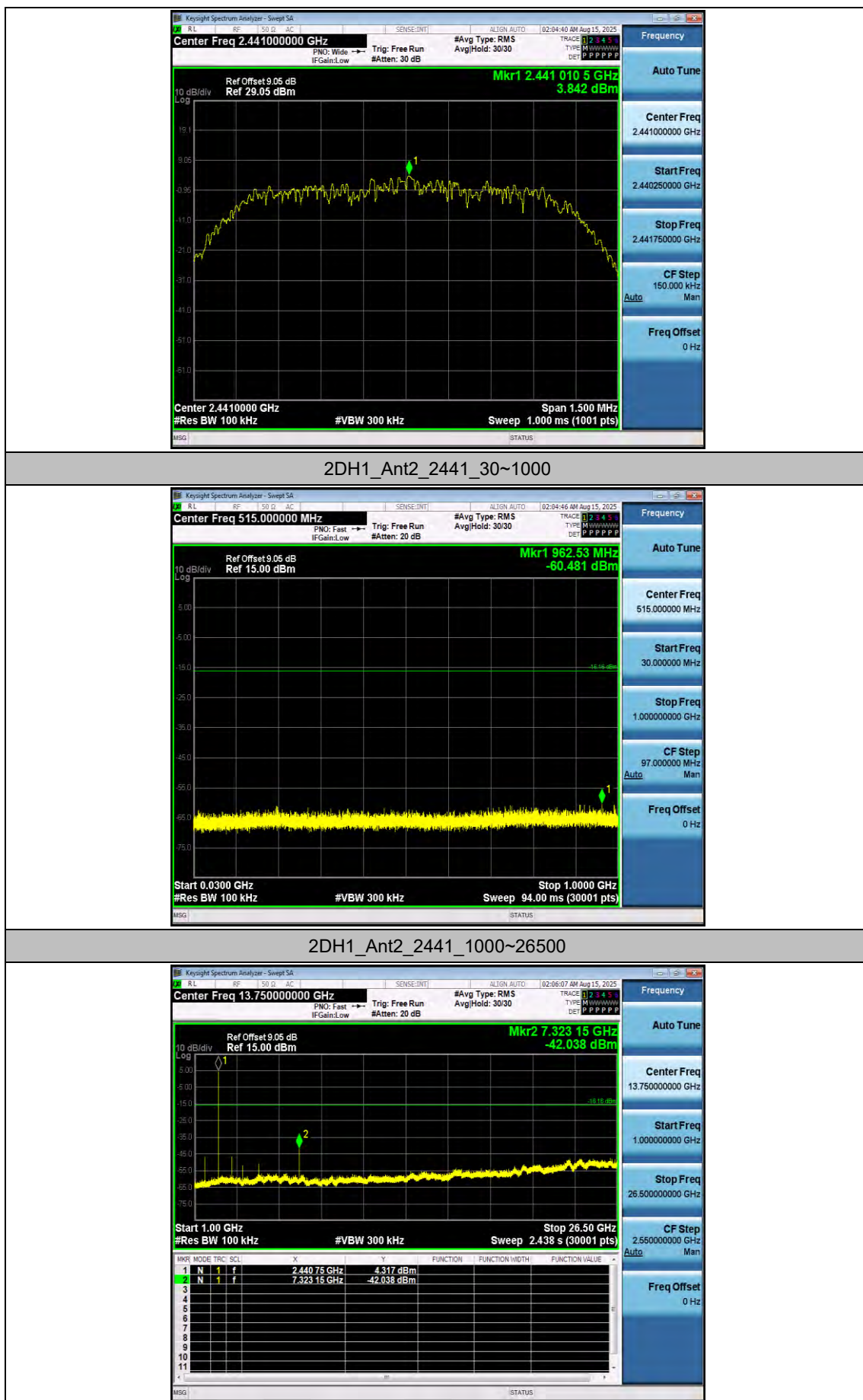
DH1_Ant2_2480_1000~26500



2DH1_Ant2_2402_0~Reference



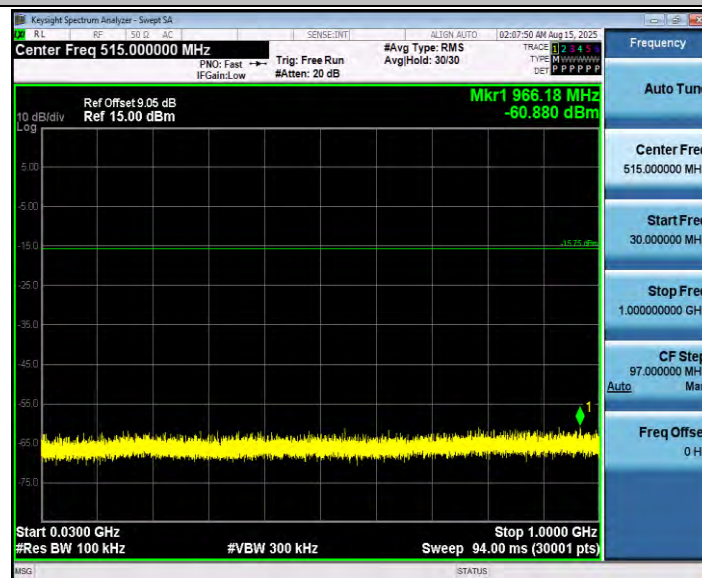




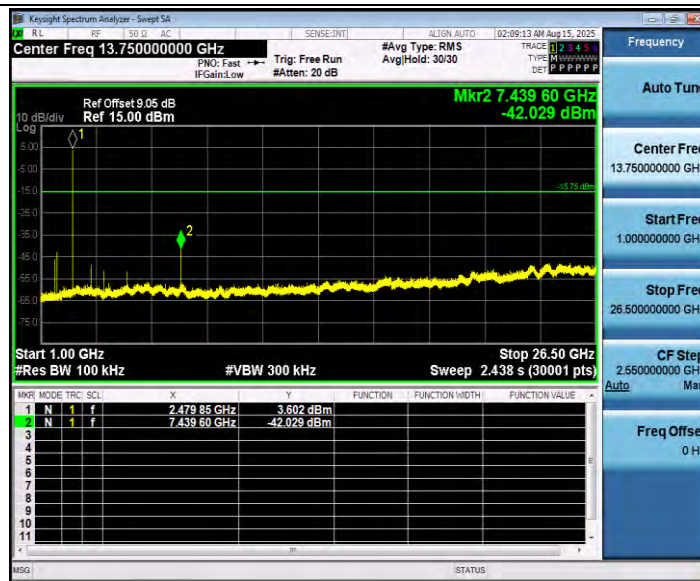
2DH1_Ant2_2480_0~Reference



2DH1_Ant2_2480_30~1000



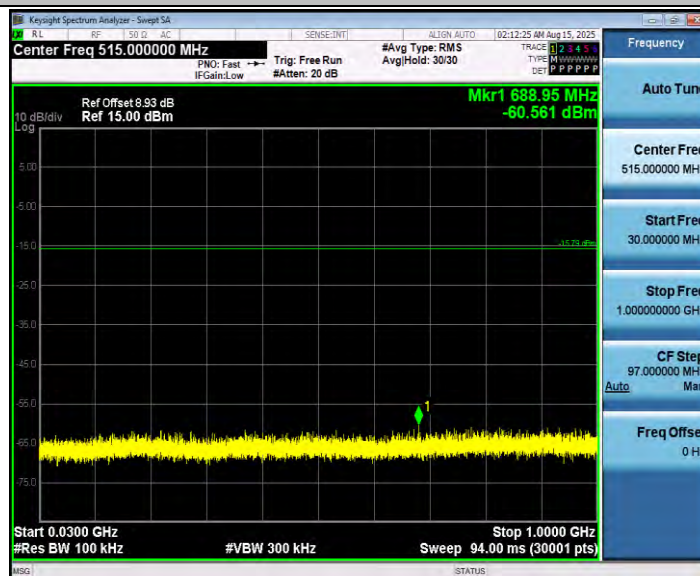
2DH1_Ant2_2480_1000~26500



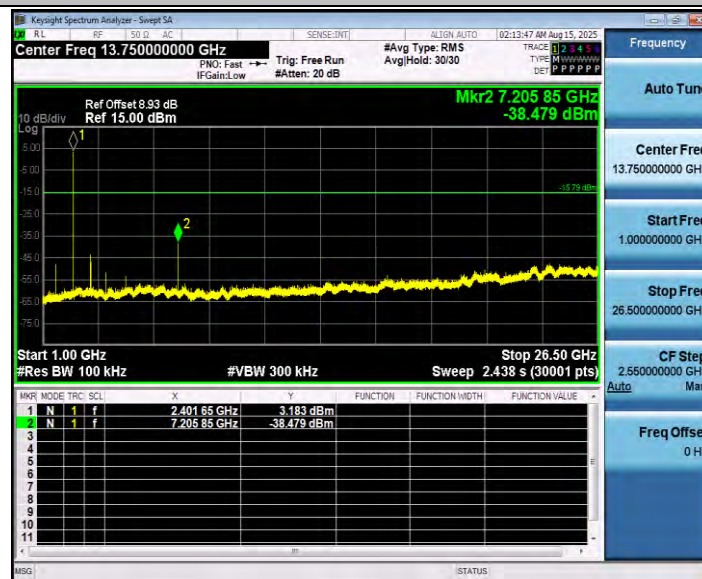
3DH1_Ant2_2402_0~Reference



3DH1_Ant2_2402_30~1000



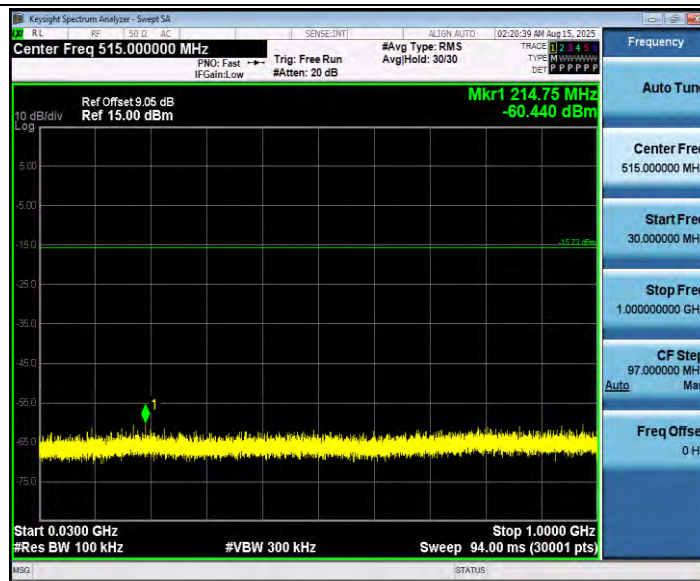
3DH1_Ant2_2402_1000~26500



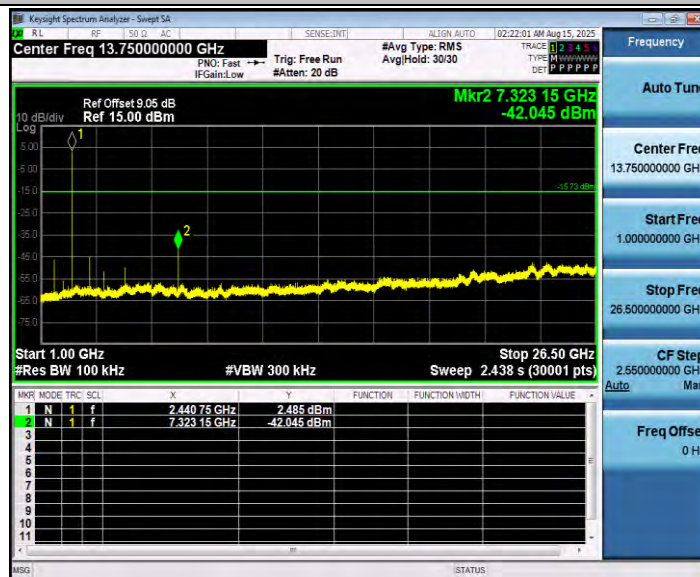
3DH1_Ant2_2441_0~Reference



3DH1_Ant2_2441_30~1000

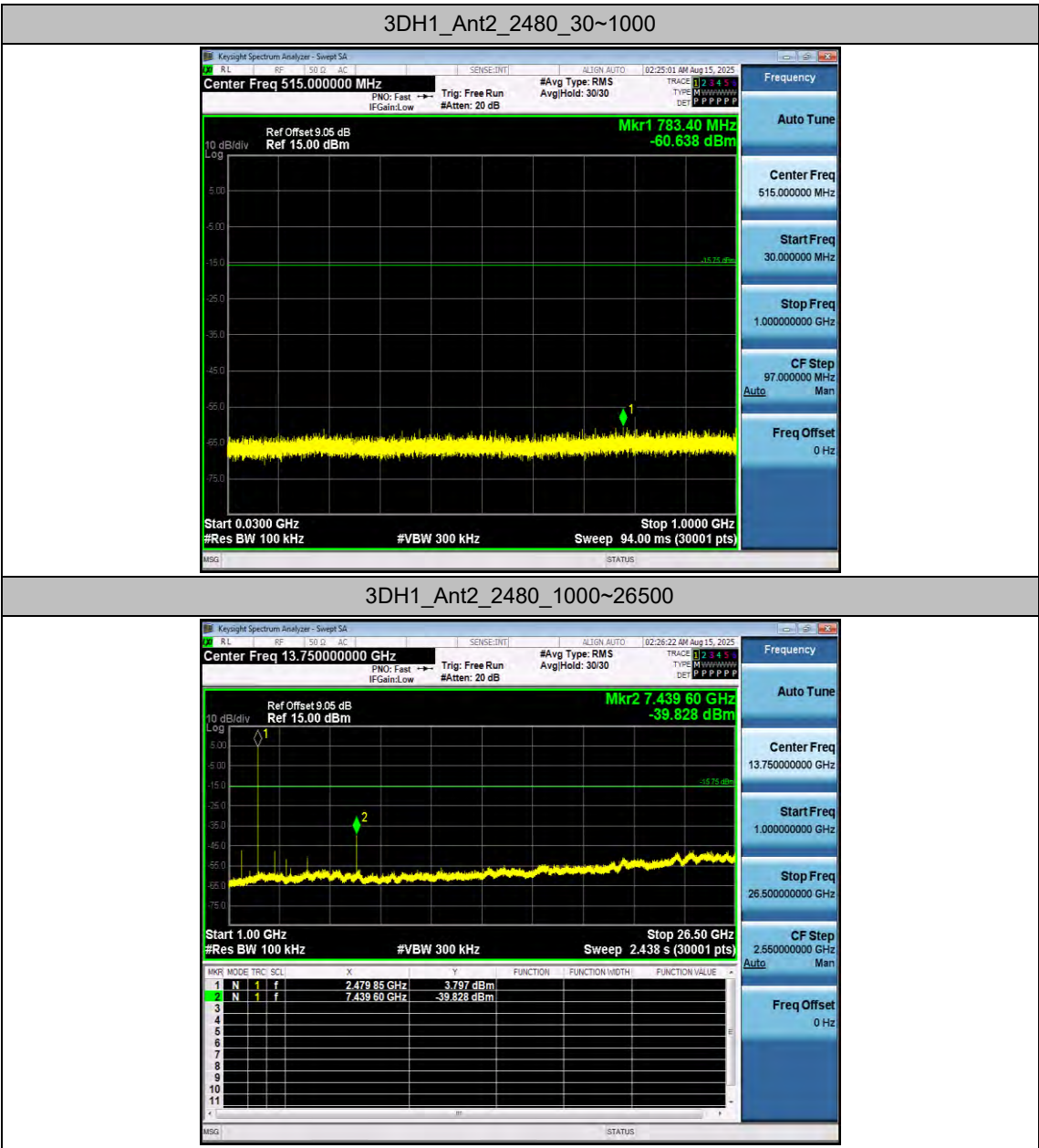


3DH1_Ant2_2441_1000~26500



3DH1_Ant2_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

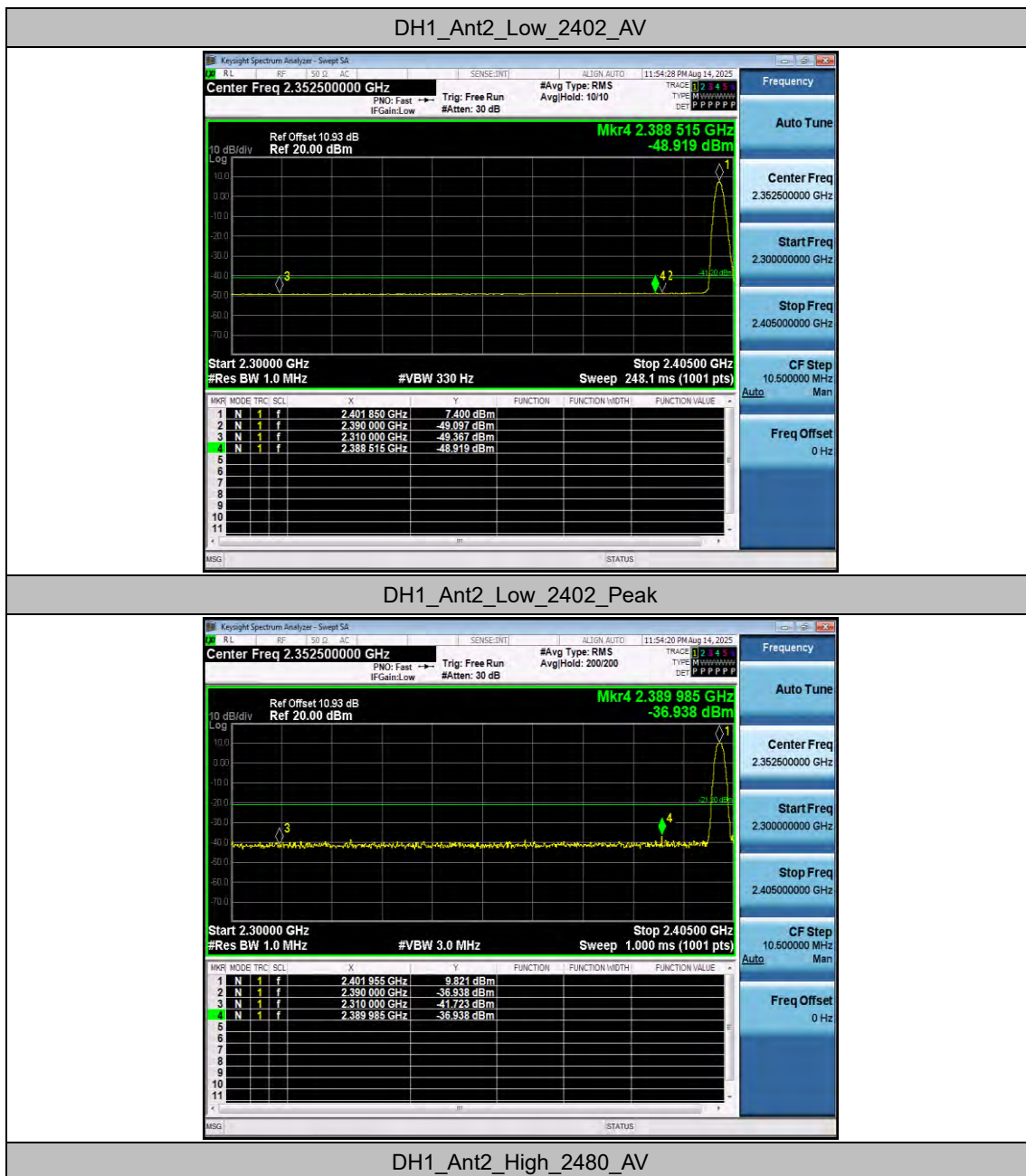
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant2	Low	2402	AV	2310.000	-49.37	≤-41.20	45.83	≤54	PASS
				AV	2388.515	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2390.000	-49.1	≤-41.20	46.10	≤54	PASS
				Peak	2310.000	-41.72	≤-21.20	53.48	≤74	PASS
				Peak	2389.985	-36.94	≤-21.20	58.26	≤74	PASS
				Peak	2390.000	-36.94	≤-21.20	58.26	≤74	PASS
		High	2480	AV	2483.500	-47.54	≤-41.20	47.66	≤54	PASS
				AV	2483.520	-47.54	≤-41.20	47.66	≤54	PASS
				AV	2500.000	-48.74	≤-41.20	46.46	≤54	PASS
				Peak	2483.500	-39.72	≤-21.20	55.48	≤74	PASS
				Peak	2491.520	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2500.000	-41.29	≤-21.20	53.91	≤74	PASS
2DH1	Ant2	Low	2402	AV	2310.000	-49.3	≤-41.20	45.90	≤54	PASS
				AV	2384.840	-48.88	≤-41.20	46.32	≤54	PASS
				AV	2390.000	-49.11	≤-41.20	46.09	≤54	PASS
				Peak	2310.000	-40.6	≤-21.20	54.60	≤74	PASS
				Peak	2385.680	-38.65	≤-21.20	56.55	≤74	PASS
				Peak	2390.000	-42.2	≤-21.20	53.00	≤74	PASS
		High	2480	AV	2483.500	-47.96	≤-41.20	47.24	≤54	PASS
				AV	2483.520	-47.96	≤-41.20	47.24	≤54	PASS
				AV	2500.000	-48.75	≤-41.20	46.45	≤54	PASS
				Peak	2483.500	-40.69	≤-21.20	54.51	≤74	PASS
				Peak	2498.400	-38.91	≤-21.20	56.29	≤74	PASS
				Peak	2500.000	-40.02	≤-21.20	55.18	≤74	PASS
3DH1	Ant2	Low	2402	AV	2310.000	-49.24	≤-41.20	45.96	≤54	PASS
				AV	2389.775	-48.88	≤-41.20	46.32	≤54	PASS
				AV	2390.000	-49.07	≤-41.20	46.13	≤54	PASS
				Peak	2310.000	-42.65	≤-21.20	52.55	≤74	PASS
				Peak	2374.235	-38.09	≤-21.20	57.11	≤74	PASS
				Peak	2390.000	-41.42	≤-21.20	53.78	≤74	PASS
		High	2480	AV	2483.500	-47.99	≤-41.20	47.21	≤54	PASS
				AV	2483.520	-47.99	≤-41.20	47.21	≤54	PASS
				AV	2500.000	-48.75	≤-41.20	46.45	≤54	PASS
				Peak	2483.500	-38.83	≤-21.20	56.37	≤74	PASS

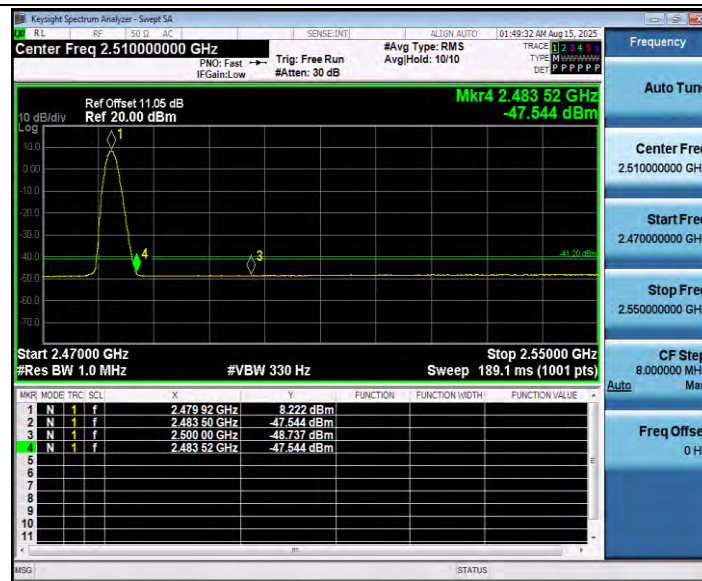
				Peak	2483.520	-38.83	≤-21.20	56.37	≤74	PASS
				Peak	2500.000	-41.22	≤-21.20	53.98	≤74	PASS

Note:

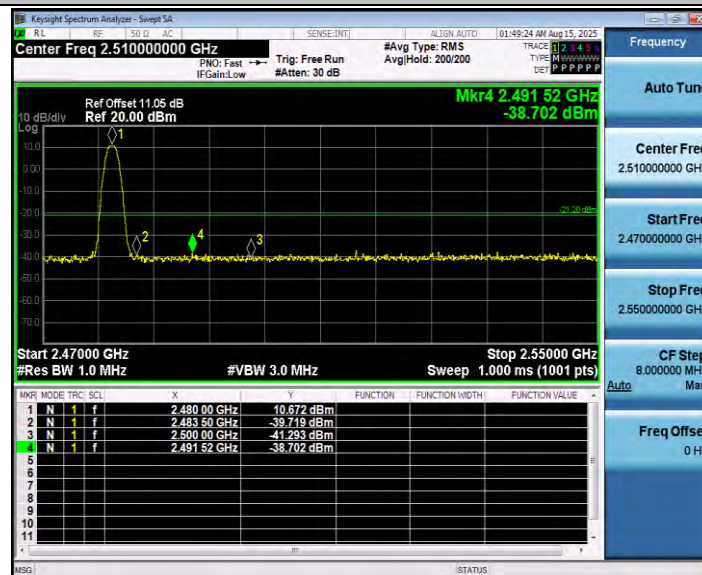
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

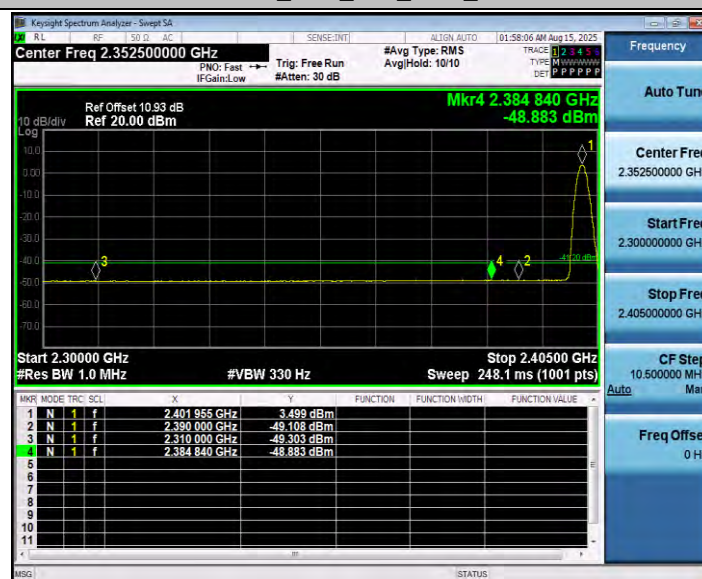




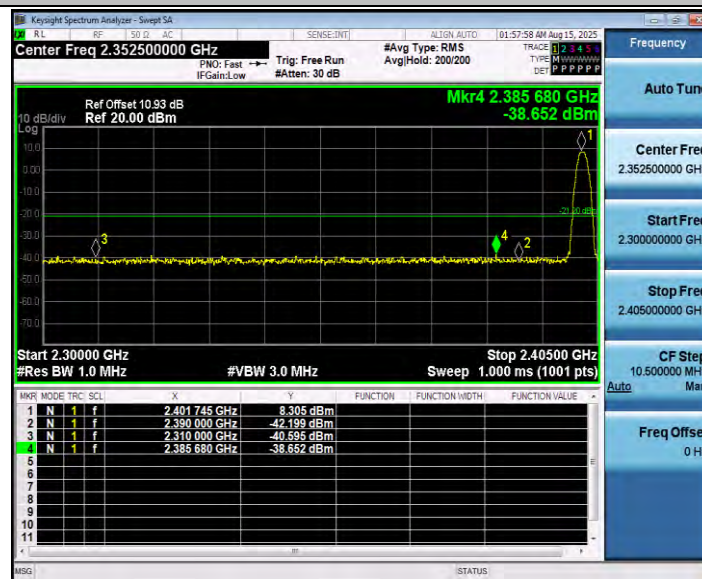
DH1_Ant2_High_2480_Peak



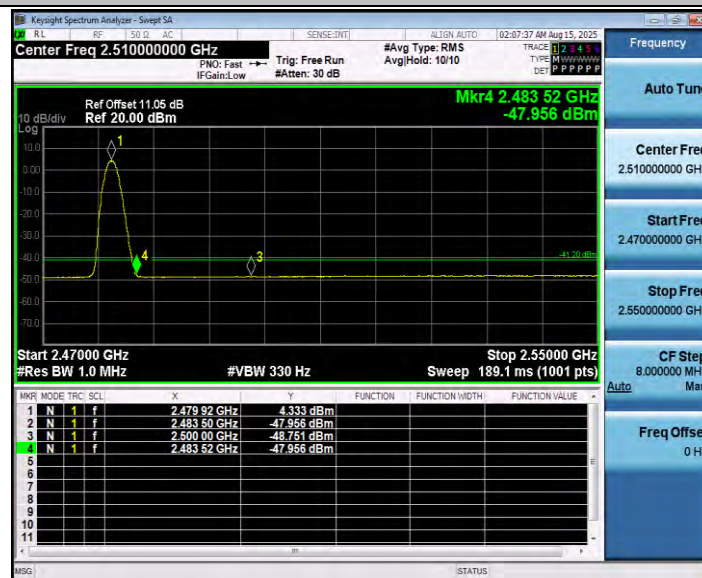
2DH1_Ant2_Low_2402_AV



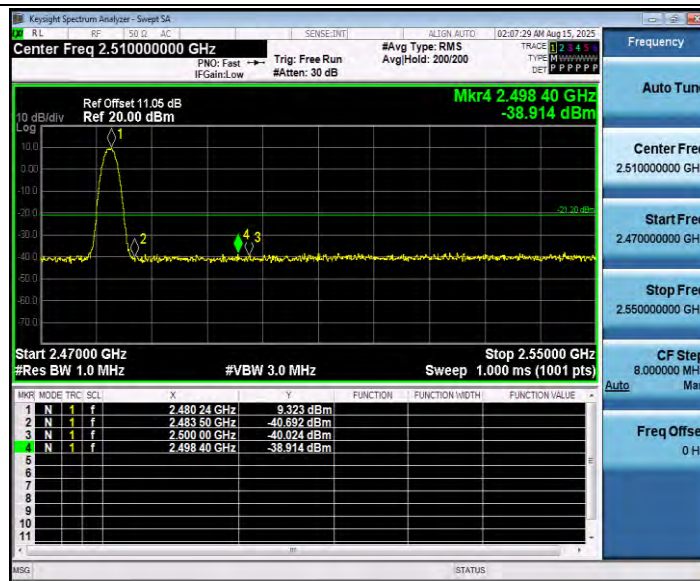
2DH1_Ant2_Low_2402_Peak



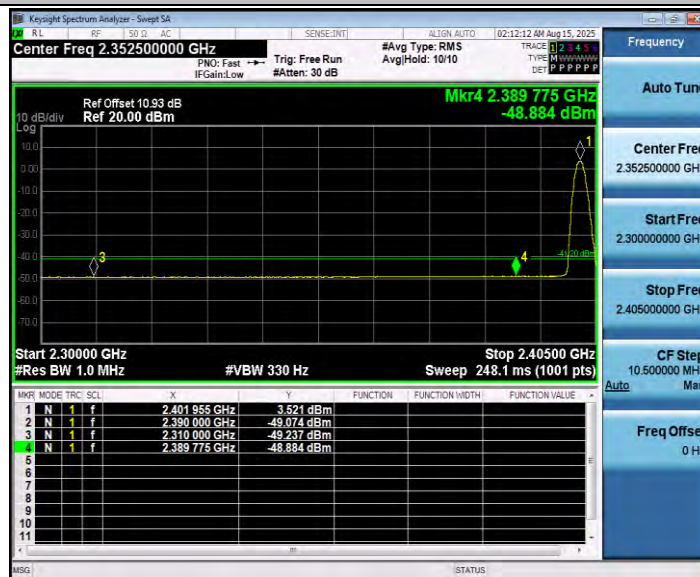
2DH1_Ant2_High_2480_AV



2DH1_Ant2_High_2480_Peak



3DH1_Ant2_Low_2402_AV



3DH1_Ant2_Low_2402_Peak

