

Case No. : <u>GTS20250409003-5-01</u>	
Ambient Condition: <u>22</u> °C, <u>51</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.5.21</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	0.801	2401.592	2402.393	---	---
		2441	0.771	2440.631	2441.402	---	---
		2480	0.783	2479.610	2480.393	---	---
2DH1	Ant1	2402	1.242	2401.373	2402.615	---	---
		2441	1.269	2440.367	2441.636	---	---
		2480	1.257	2479.367	2480.624	---	---
3DH1	Ant1	2402	1.224	2401.397	2402.621	---	---
		2441	1.257	2440.367	2441.624	---	---
		2480	1.257	2479.370	2480.627	---	---

Test Graphs

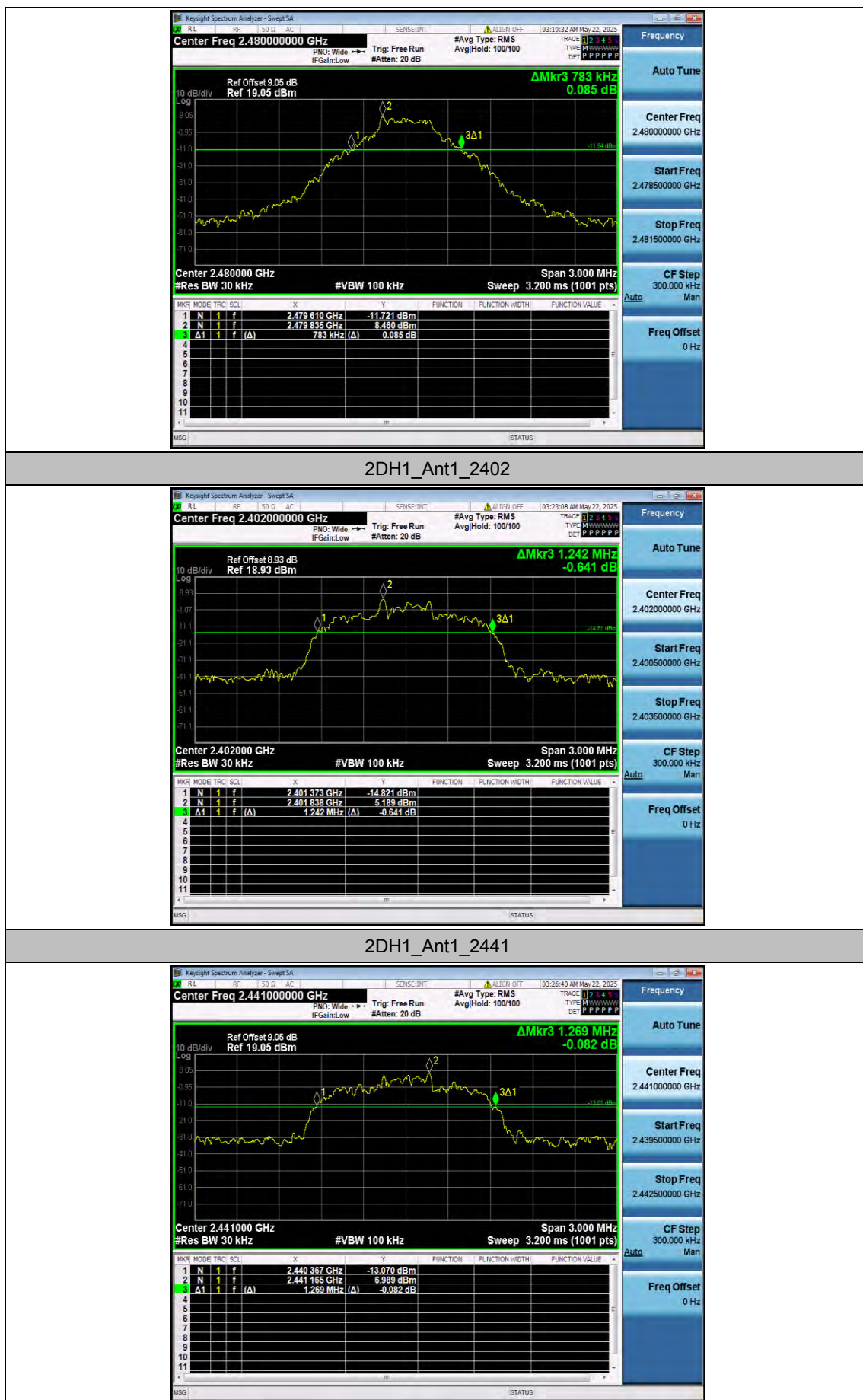
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



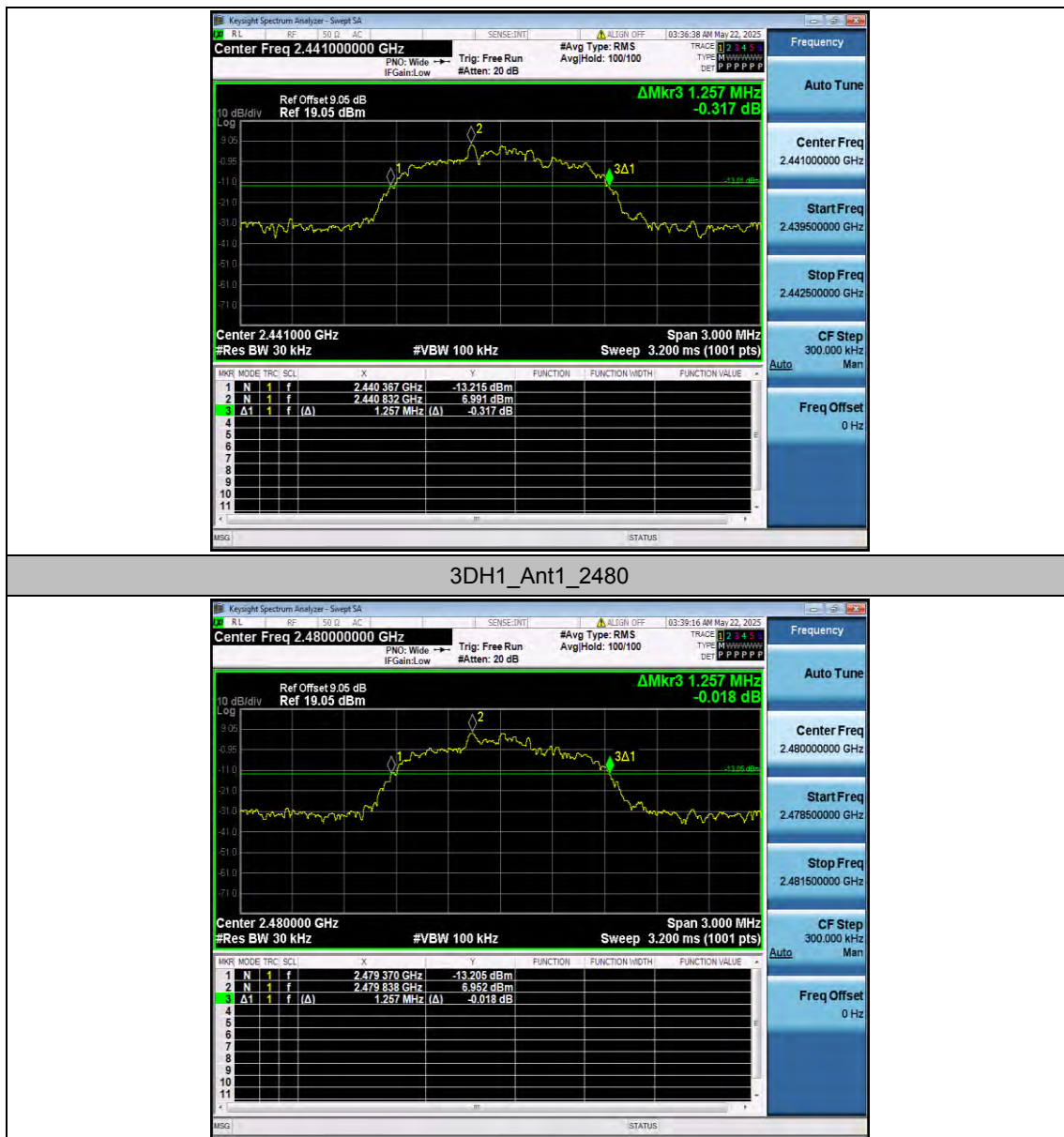
2DH1_Ant1_2480



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	0.71943	2401.6323	2402.3517	---	---
		2441	0.72488	2440.6313	2441.3562	---	---
		2480	0.72077	2479.6322	2480.3530	---	---
2DH1	Ant1	2402	1.1417	2401.4267	2402.5684	---	---
		2441	1.1535	2440.4218	2441.5753	---	---
		2480	1.1509	2479.4190	2480.5699	---	---
3DH1	Ant1	2402	1.1346	2401.4391	2402.5737	---	---
		2441	1.1454	2440.4341	2441.5795	---	---
		2480	1.1521	2479.4348	2480.5869	---	---

Test Graphs

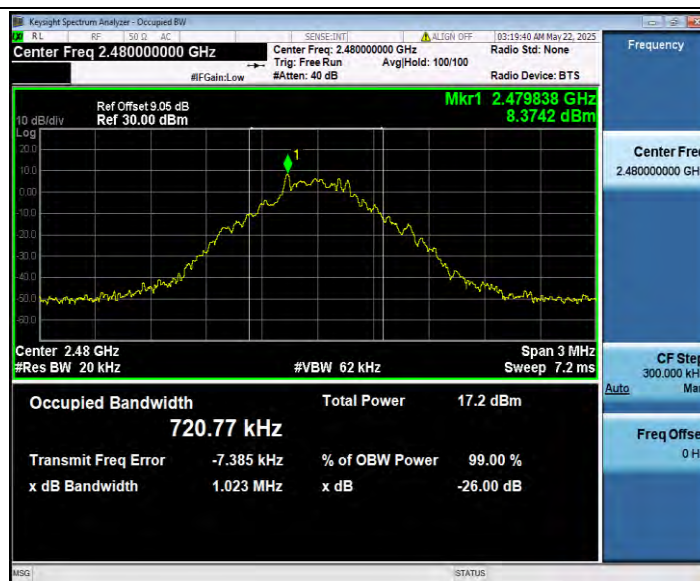
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



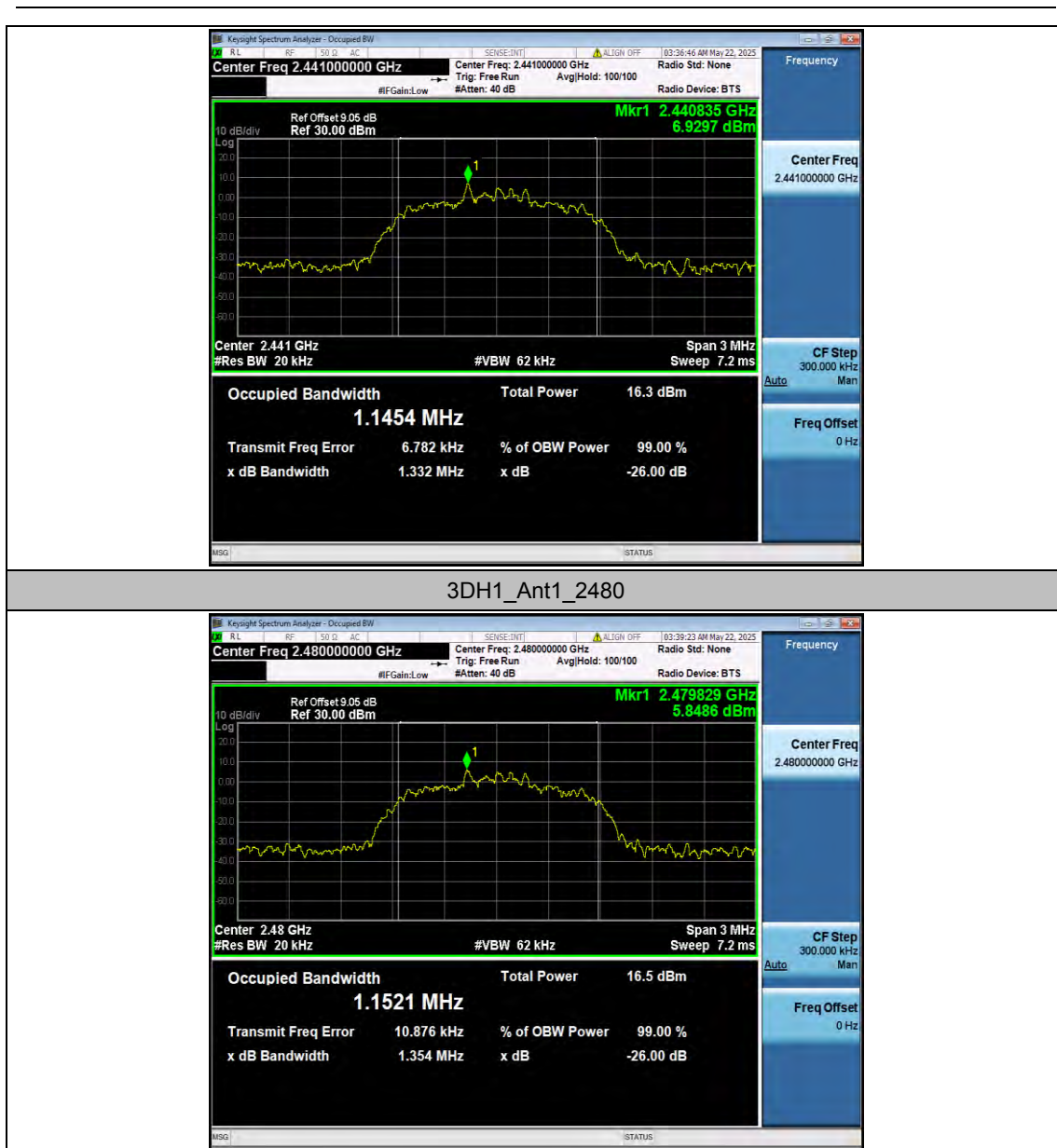
2DH1_Ant1_2480



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	11.99	≤ 20.97	PASS
		2441	11.10	≤ 20.97	PASS
		2480	11.33	≤ 20.97	PASS
2DH1	Ant1	2402	11.51	≤ 20.97	PASS
		2441	11.15	≤ 20.97	PASS
		2480	11.36	≤ 20.97	PASS
3DH1	Ant1	2402	11.57	≤ 20.97	PASS
		2441	11.13	≤ 20.97	PASS
		2480	11.34	≤ 20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.148	≥ 0.801	PASS
		Hop_2441	1.172	≥ 0.801	PASS
		Hop_2480	1	≥ 0.801	PASS
2DH1	Ant1	Hop_2402	1.016	≥ 0.846	PASS
		Hop_2441	1.02	≥ 0.846	PASS
		Hop_2480	1.17	≥ 0.846	PASS
3DH1	Ant1	Hop_2402	1.19	≥ 0.838	PASS
		Hop_2441	1.172	≥ 0.838	PASS
		Hop_2480	1.006	≥ 0.838	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



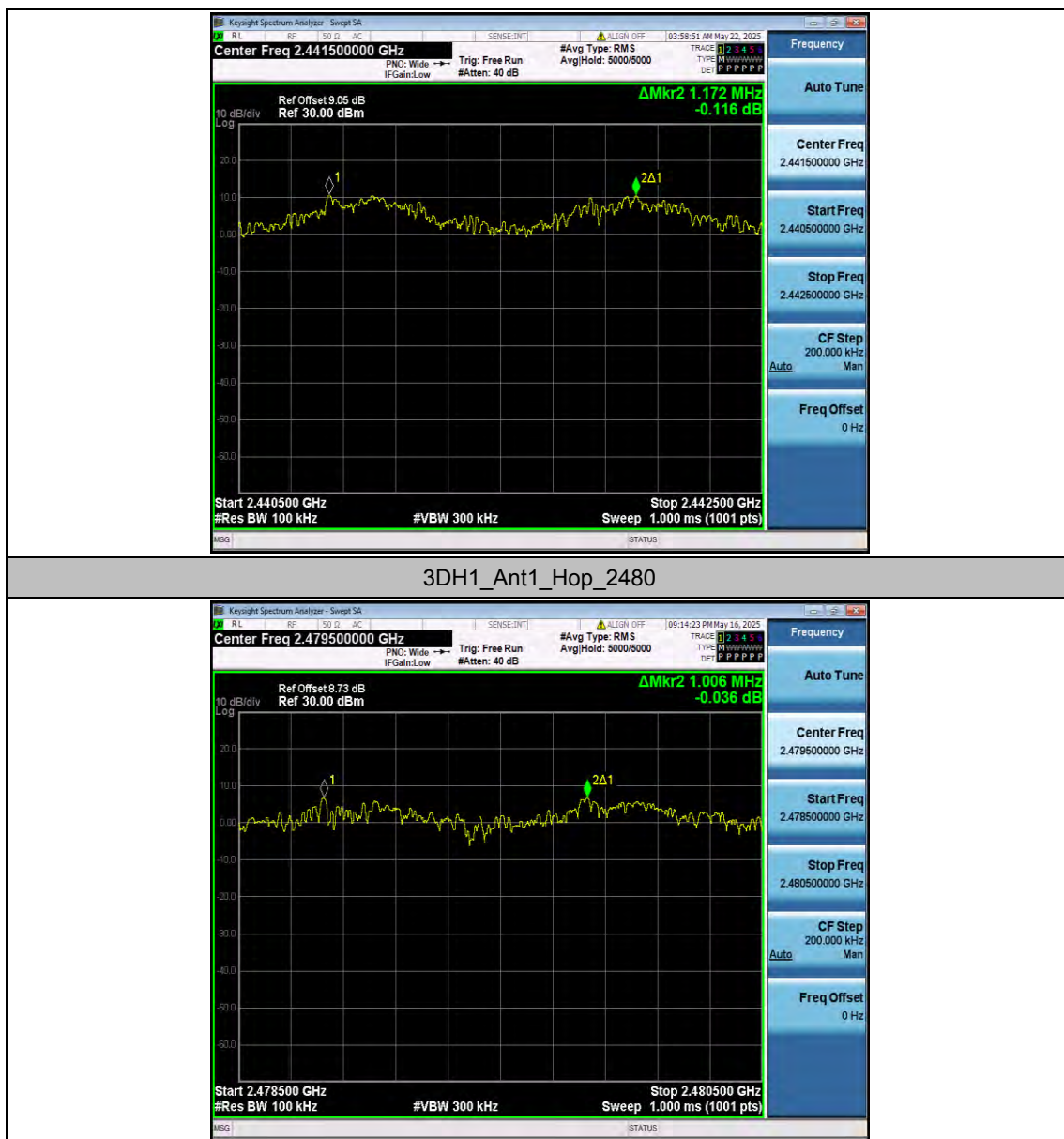
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

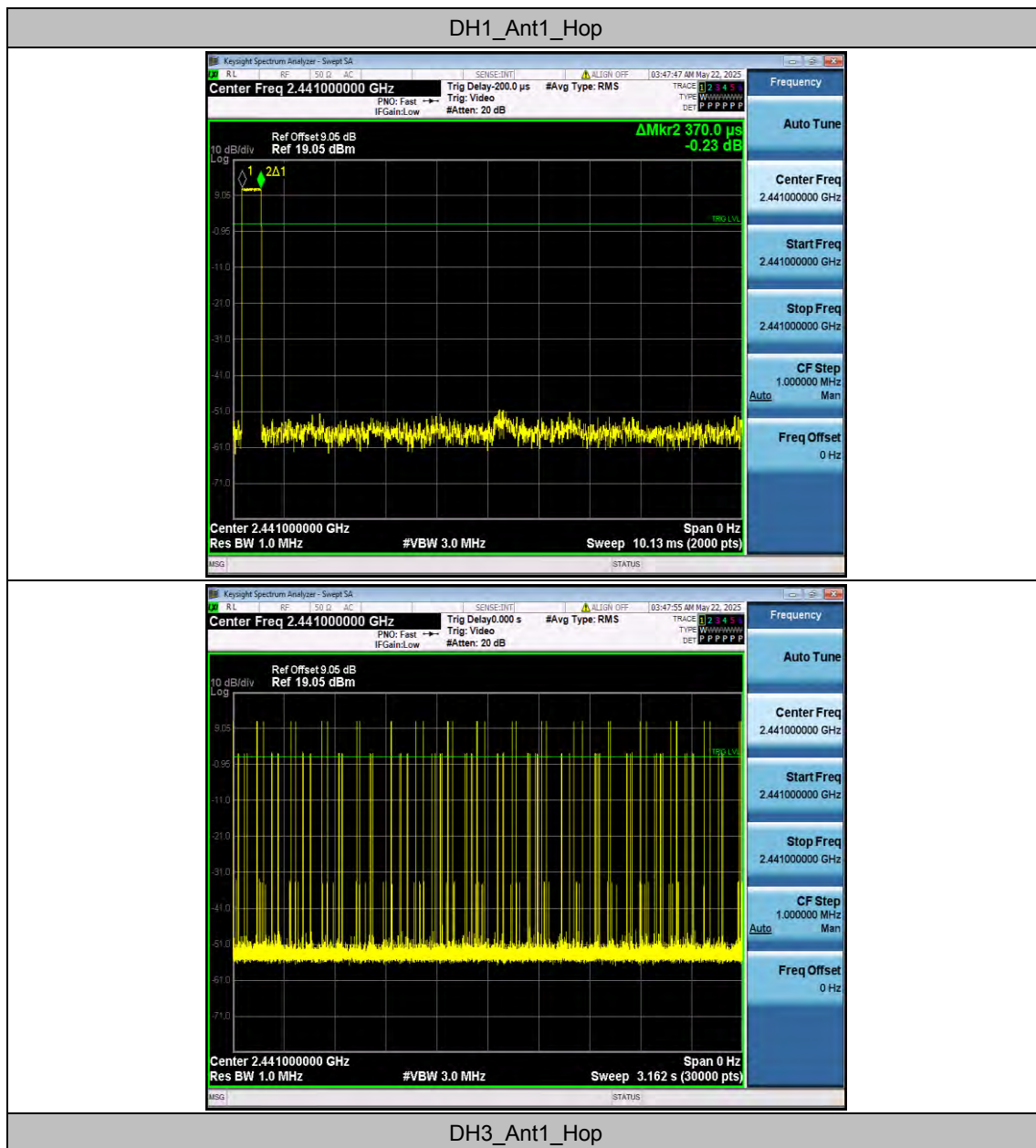


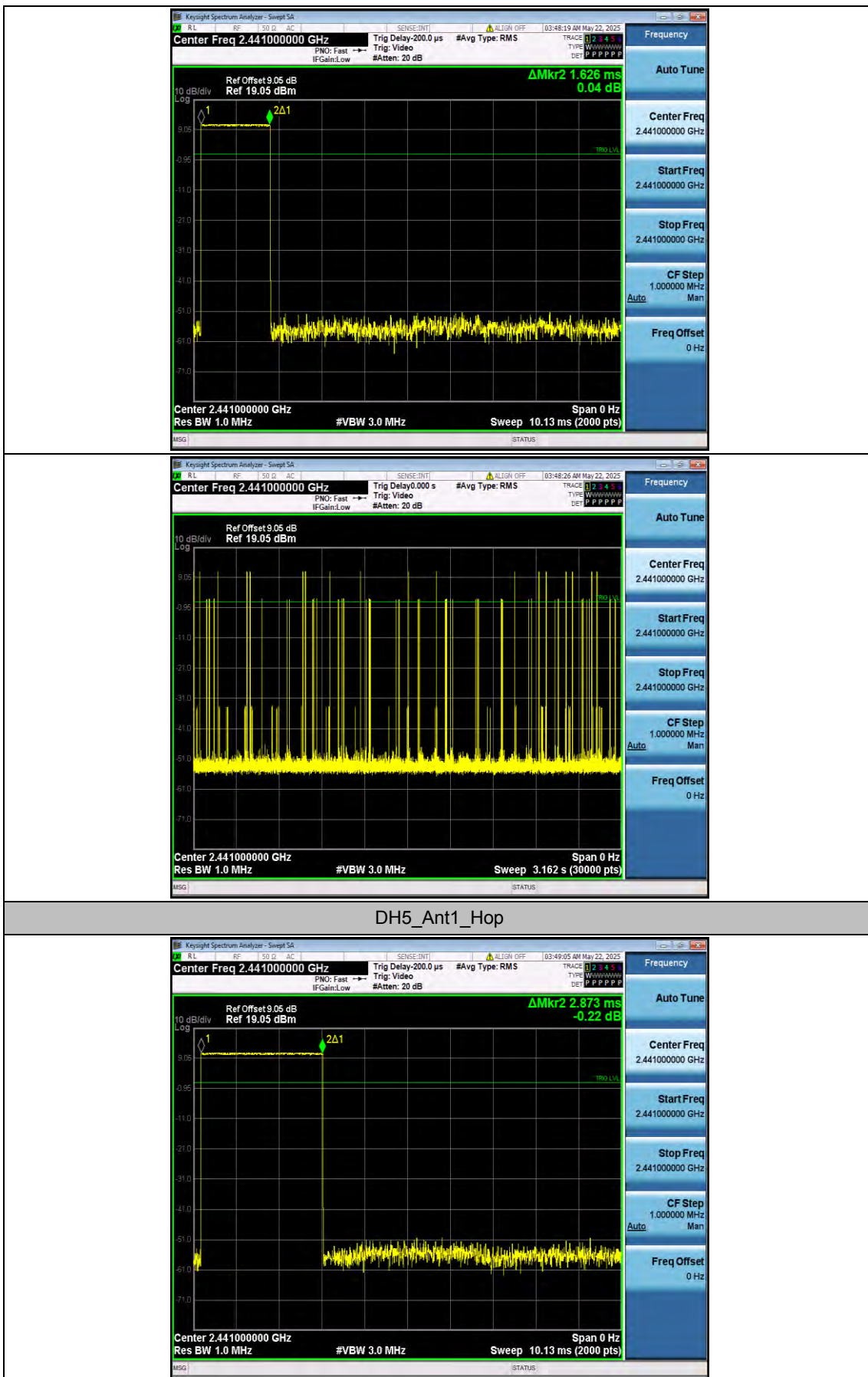
Appendix A.5: Time of occupancy

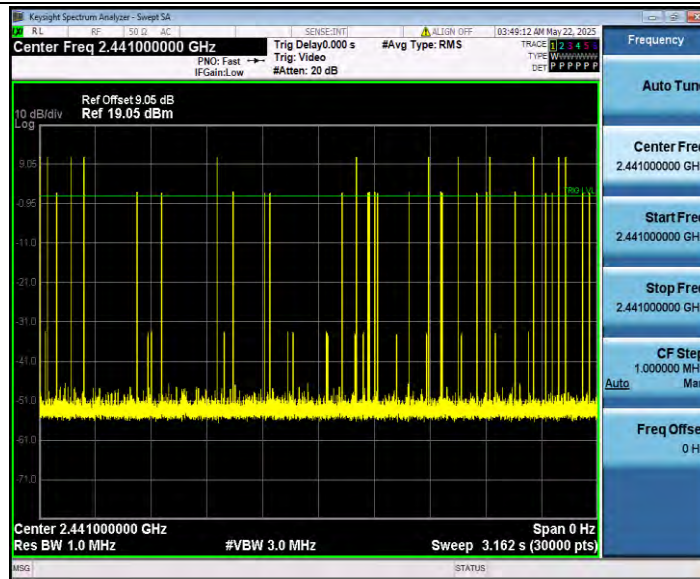
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	330	0.122	≤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	0.380	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.626	150	0.244	≤0.4	PASS
2DH5	Ant1	Hop	2.878	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.380	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.626	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.878	120	0.345	≤0.4	PASS

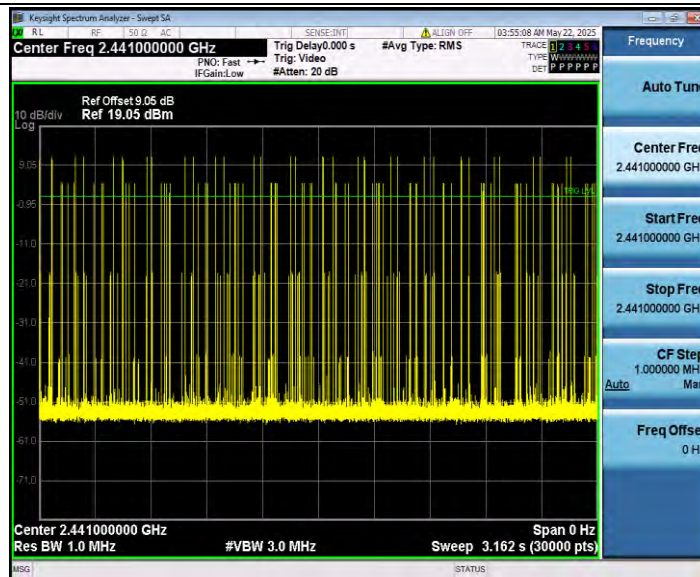
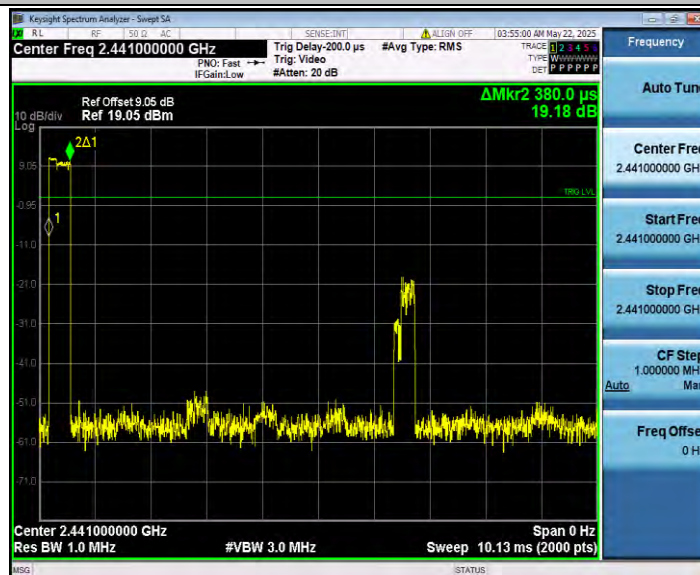
Test Graphs



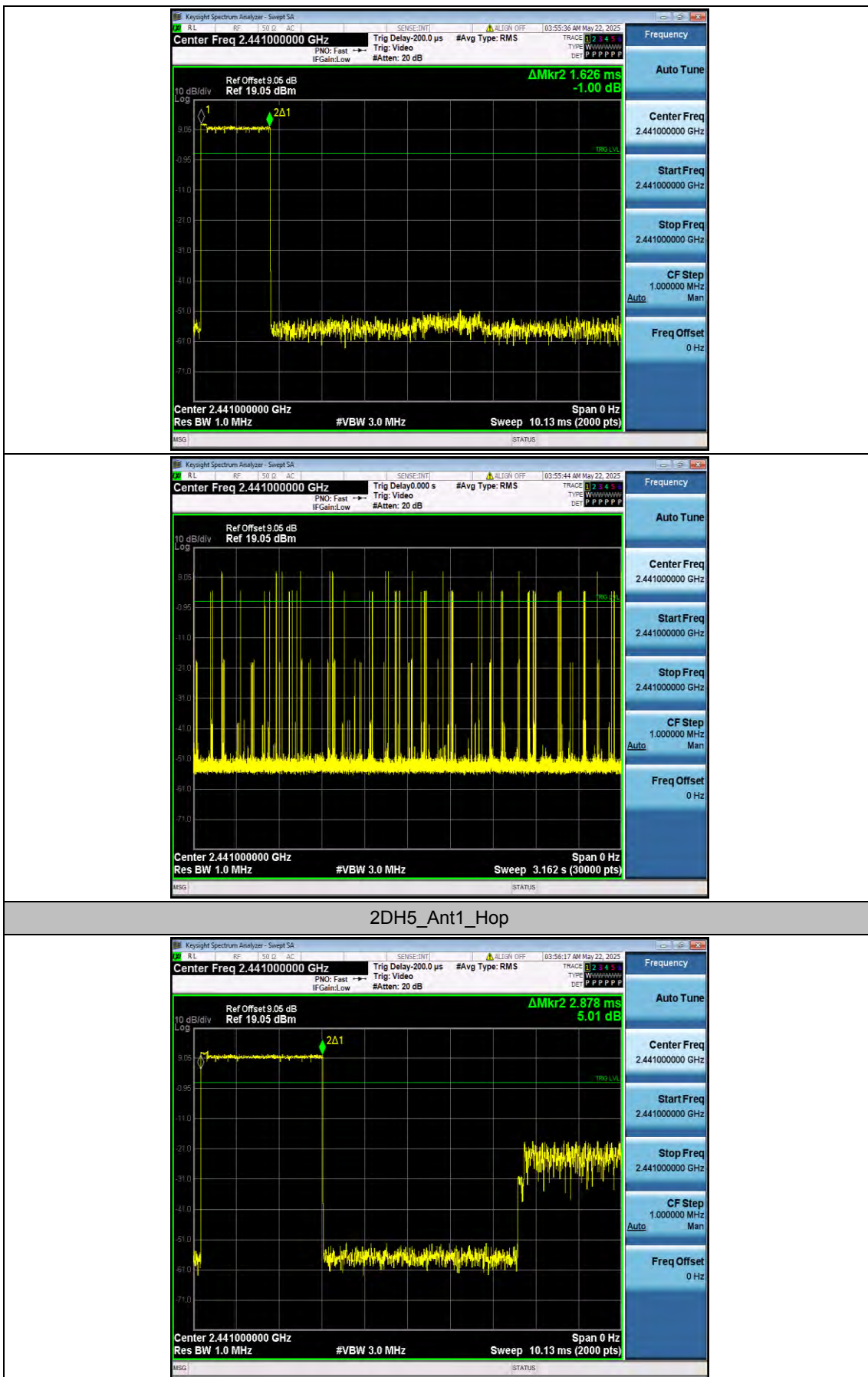


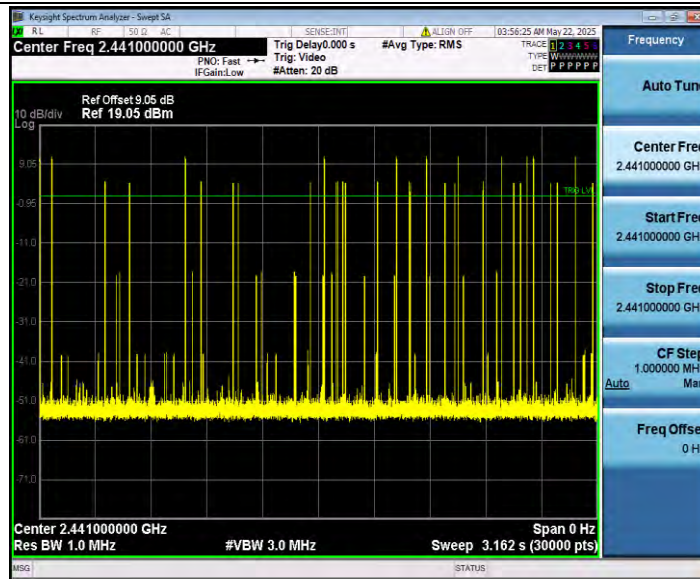


2DH1_Ant1_Hop

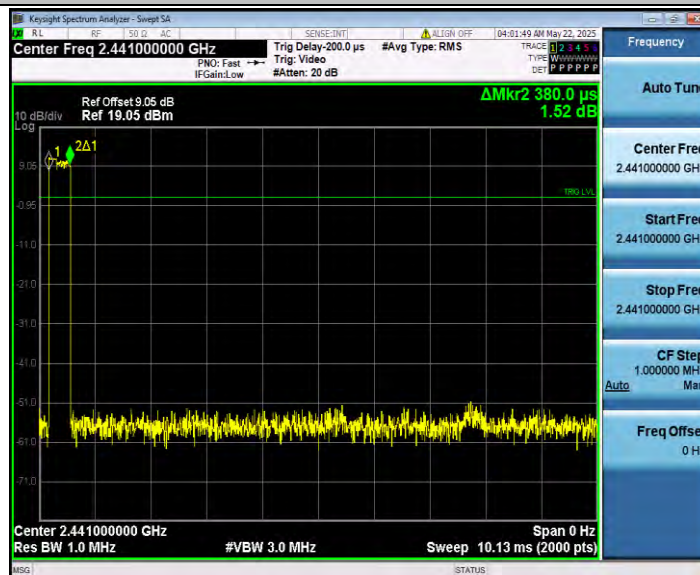


2DH3_Ant1_Hop

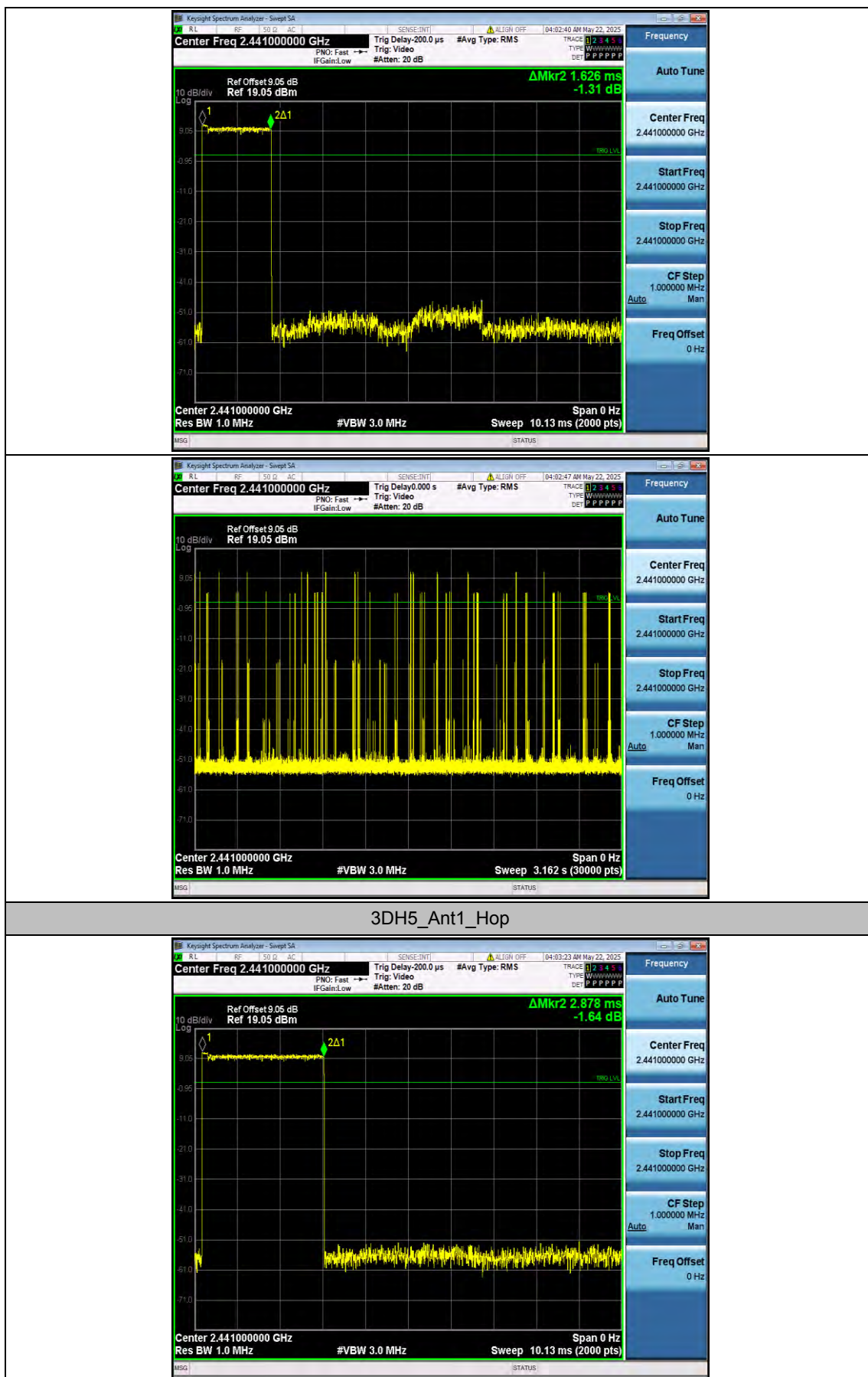


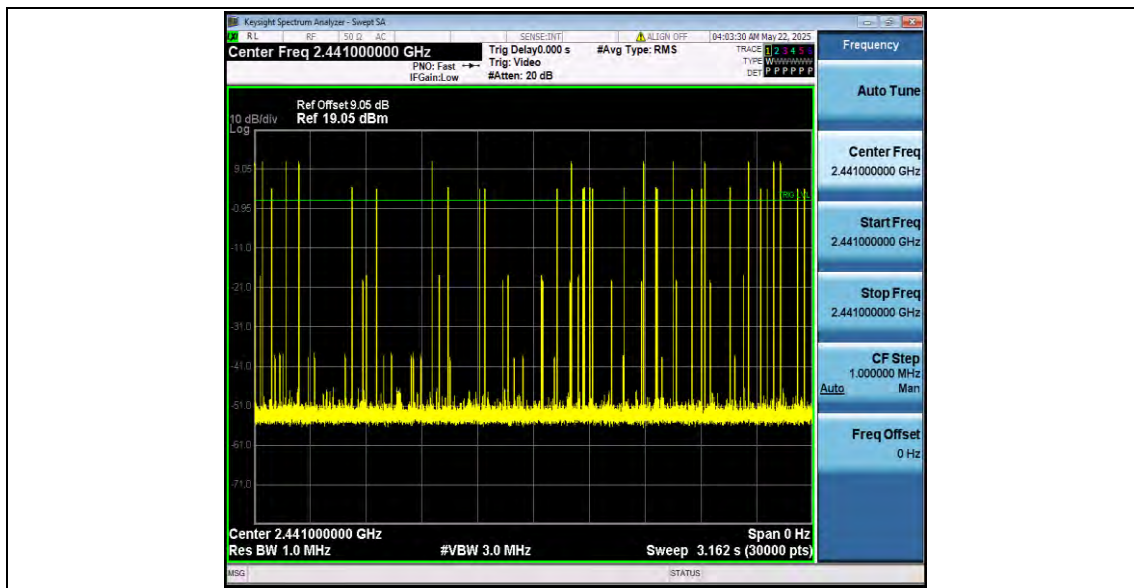


3DH1_Ant1_Hop



3DH3_Ant1_Hop



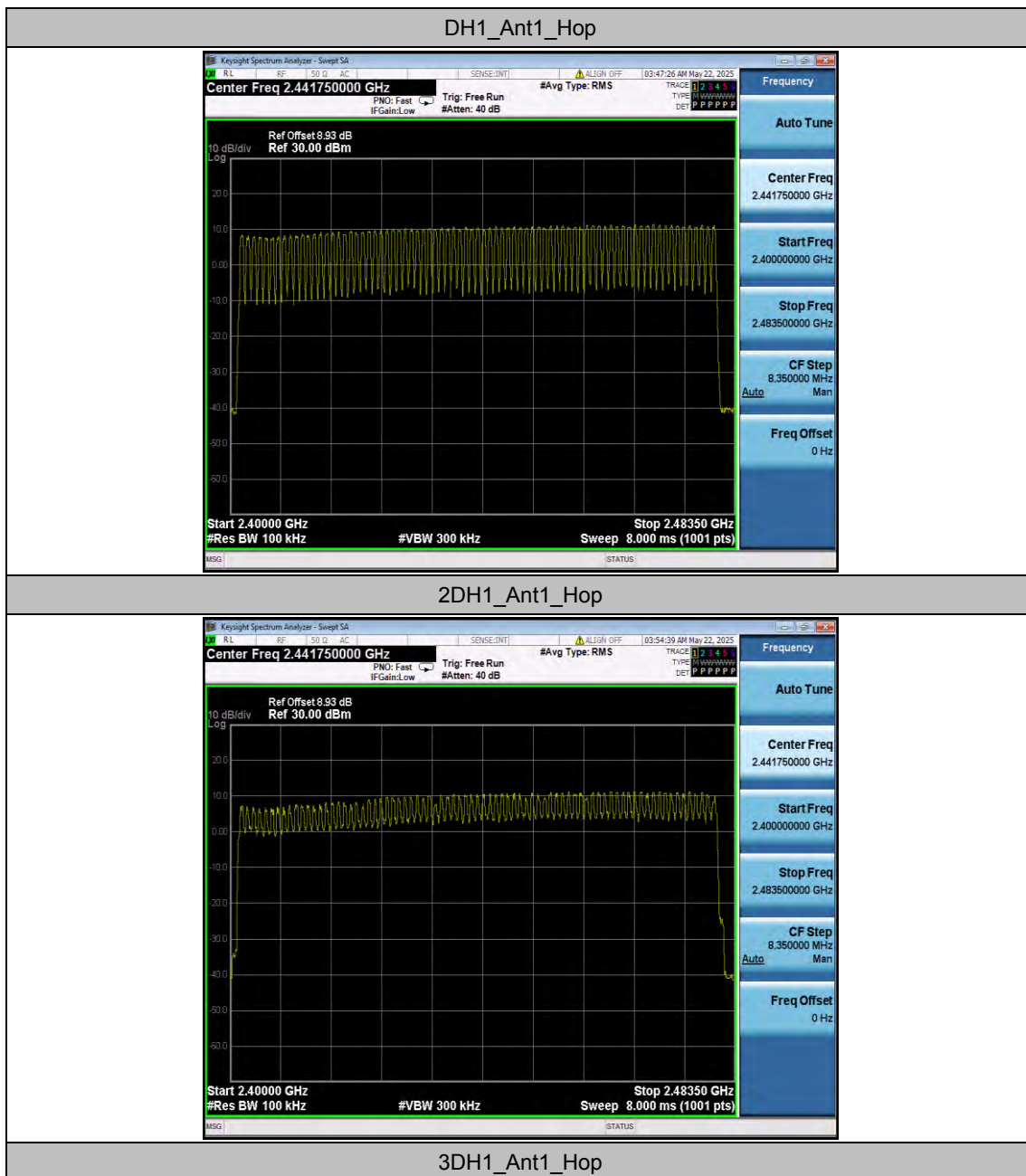


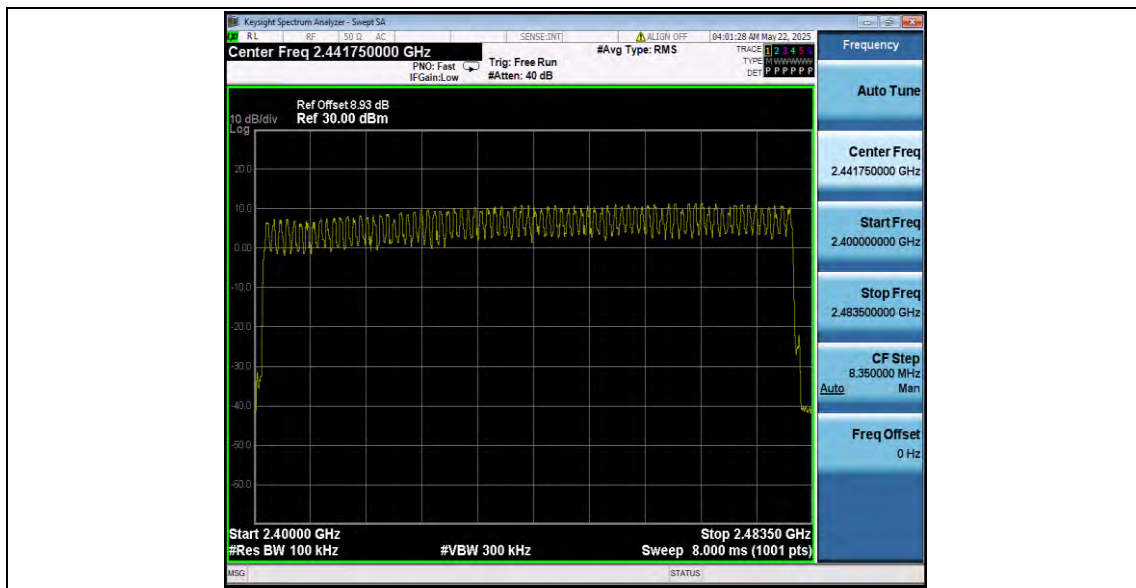
Appendix A.6: Number of hopping channels

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



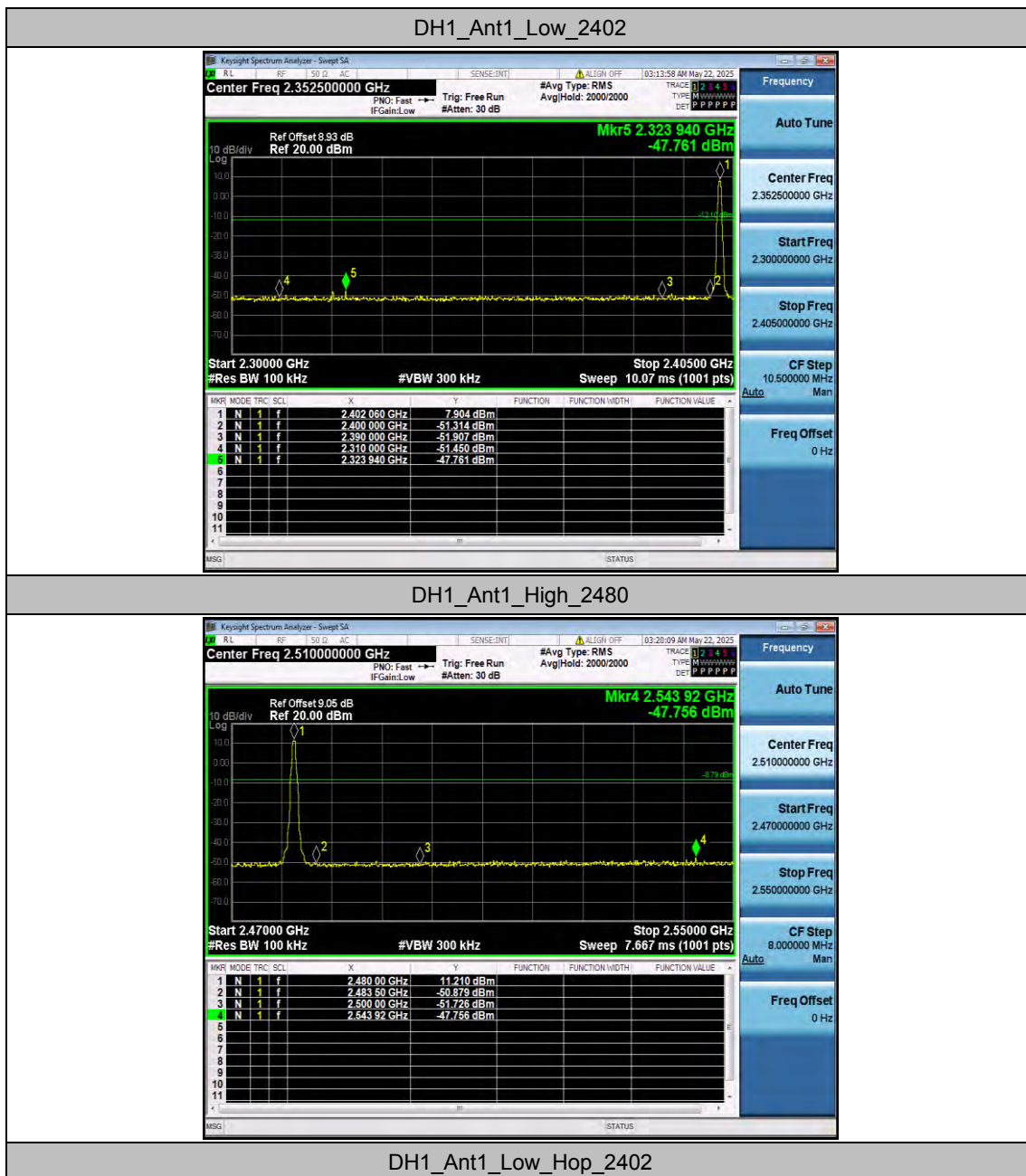


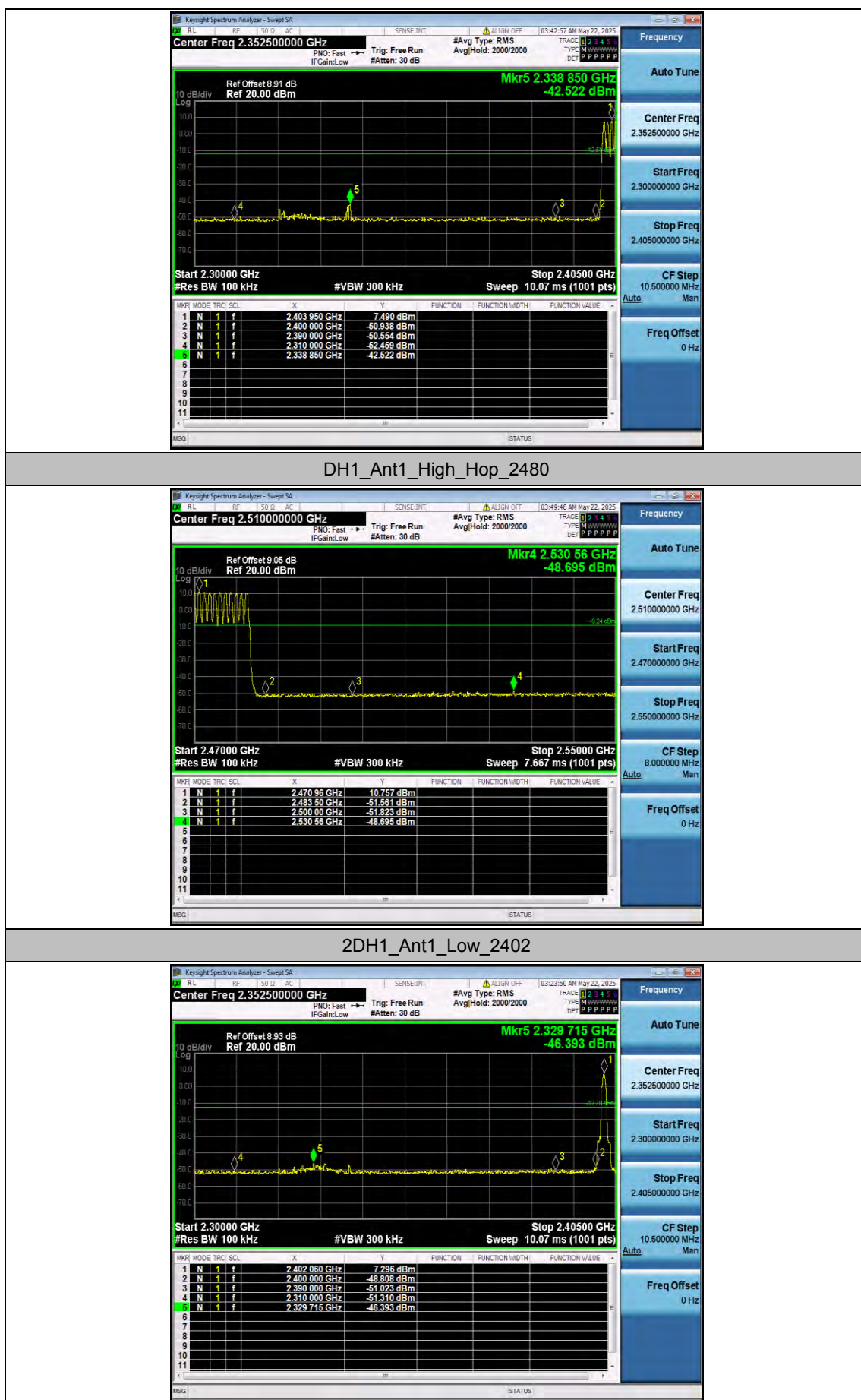
Appendix A.7: Band edge measurements

Test Result

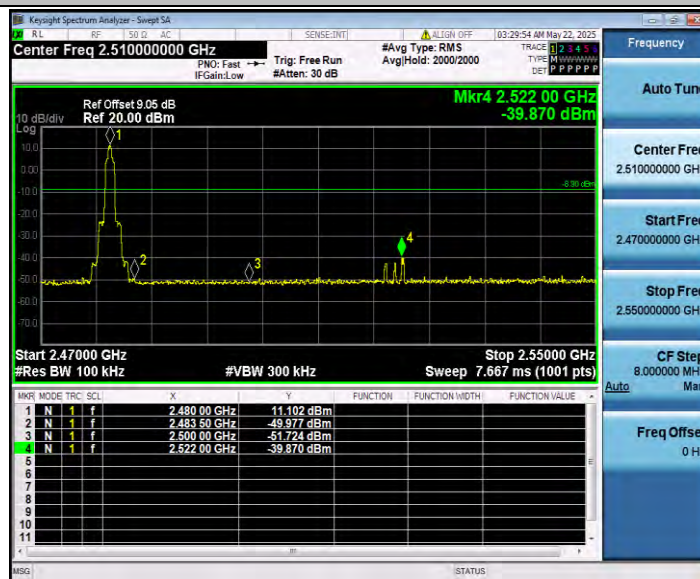
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	7.90	-47.76	≤ -12.1	PASS
		High	2480	11.21	-47.76	≤ -8.79	PASS
		Low	Hop_2402	7.49	-42.52	≤ -12.51	PASS
		High	Hop_2480	10.76	-48.7	≤ -9.24	PASS
2DH1	Ant1	Low	2402	7.30	-46.39	≤ -12.7	PASS
		High	2480	11.10	-39.87	≤ -8.9	PASS
		Low	Hop_2402	6.53	-42.44	≤ -13.47	PASS
		High	Hop_2480	8.06	-45.42	≤ -11.94	PASS
3DH1	Ant1	Low	2402	7.29	-44	≤ -12.71	PASS
		High	2480	11.14	-48.57	≤ -8.86	PASS
		Low	Hop_2402	7.02	-49.34	≤ -12.98	PASS
		High	Hop_2480	10.72	-45.87	≤ -9.28	PASS

Test Graphs

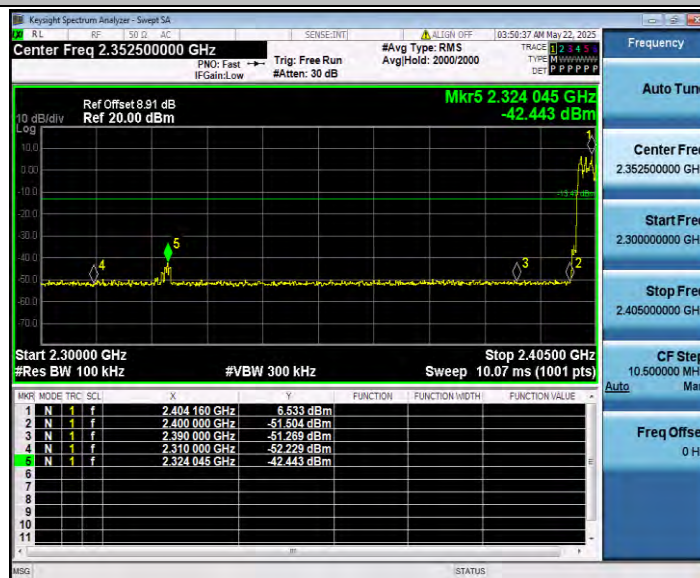




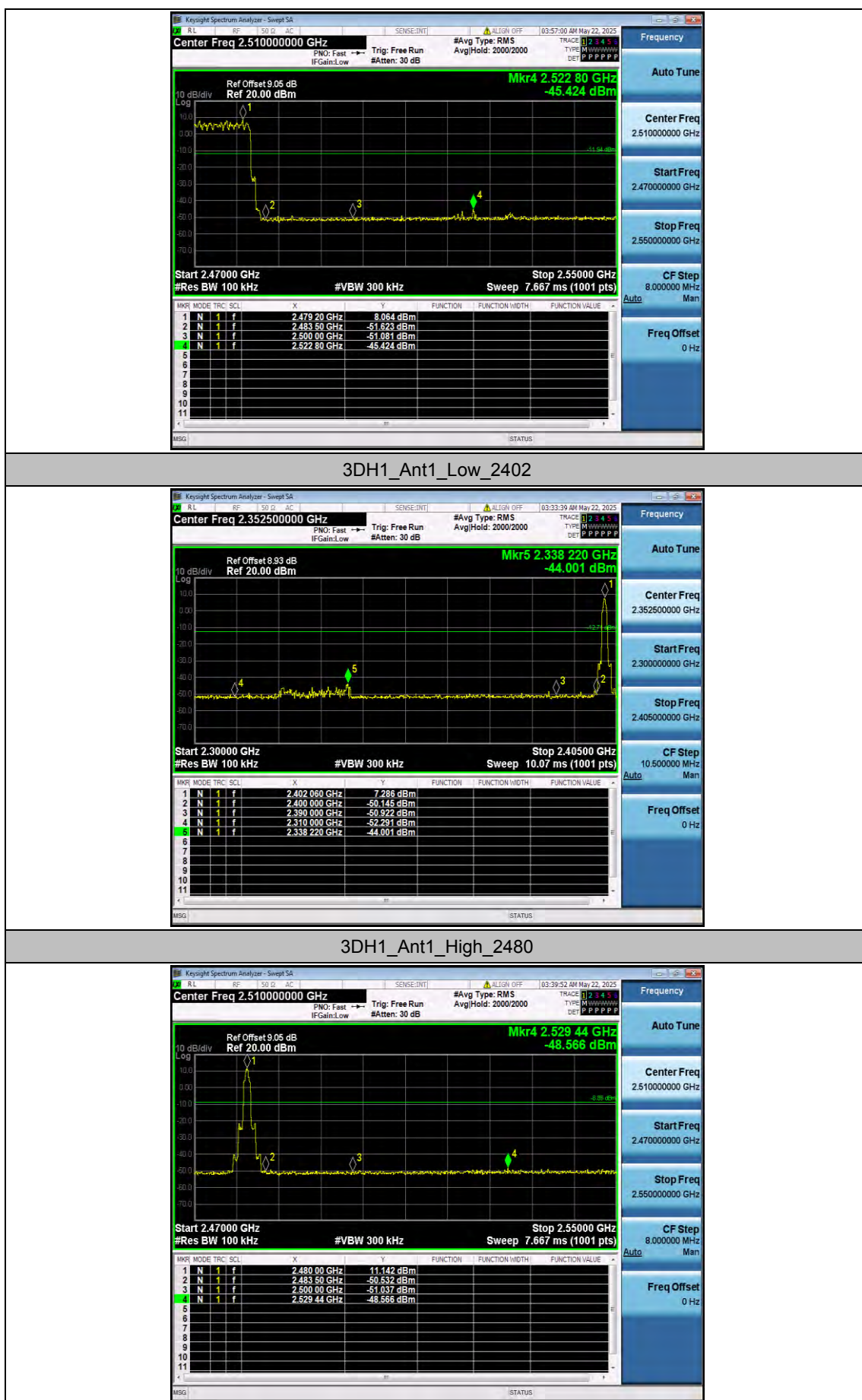
2DH1_Ant1_High_2480



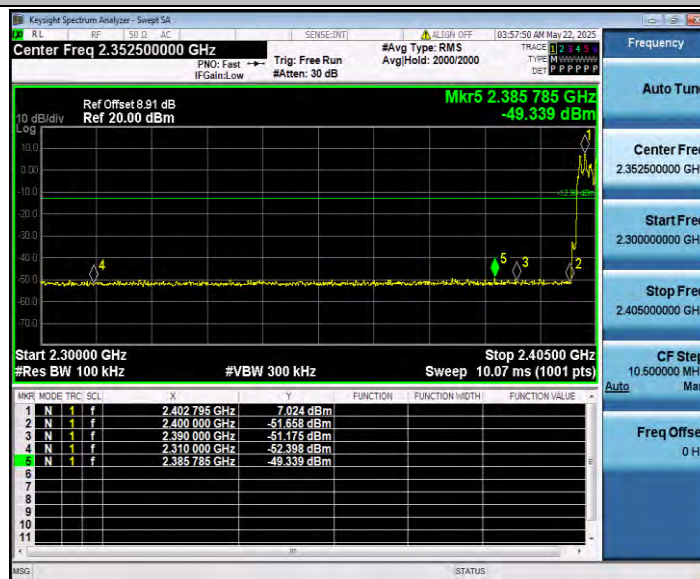
2DH1_Ant1_Low_Hop_2402



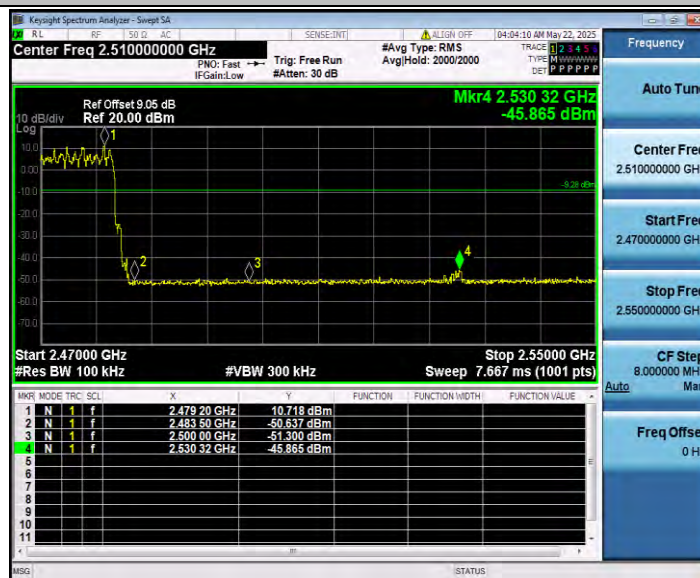
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

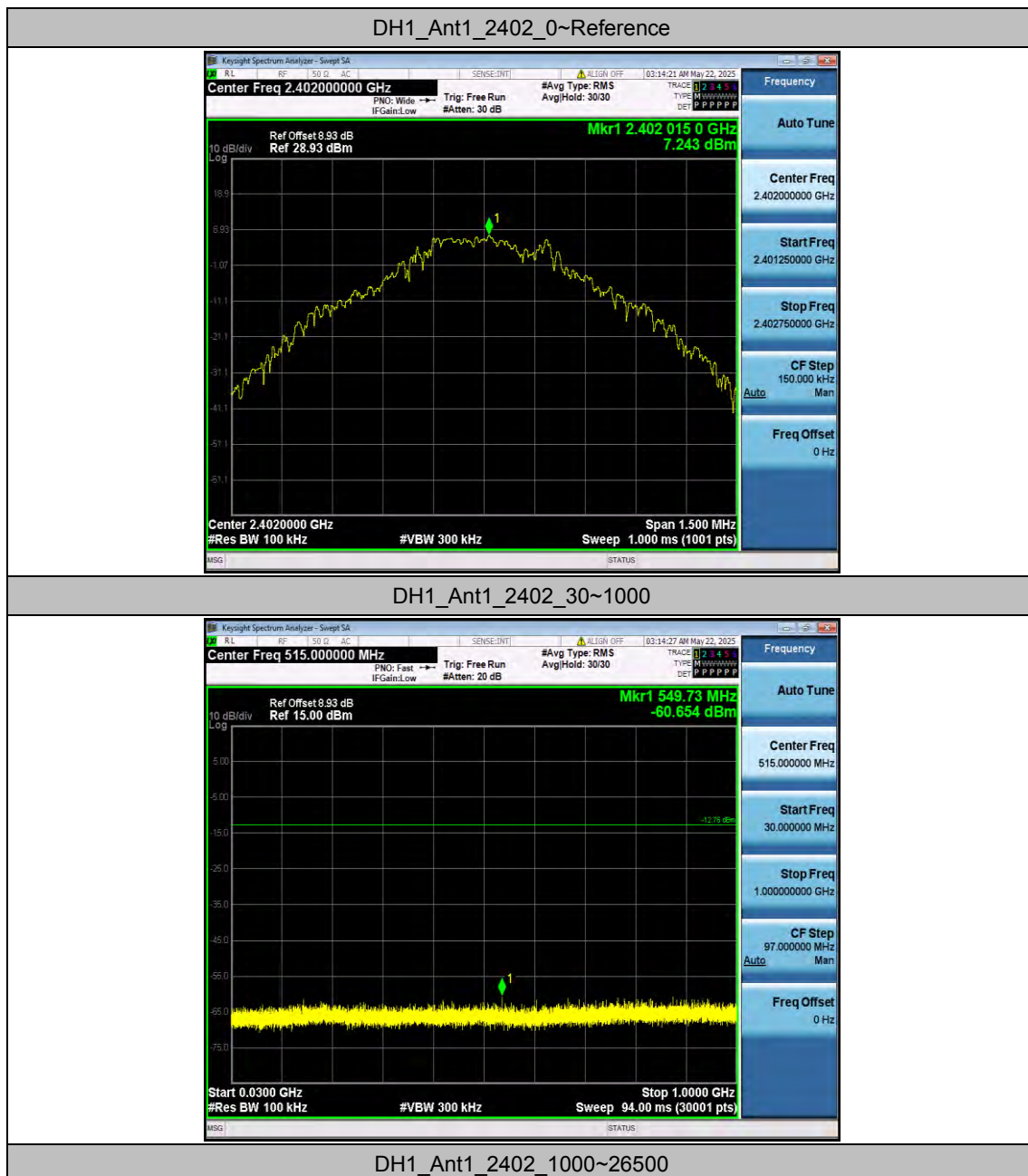


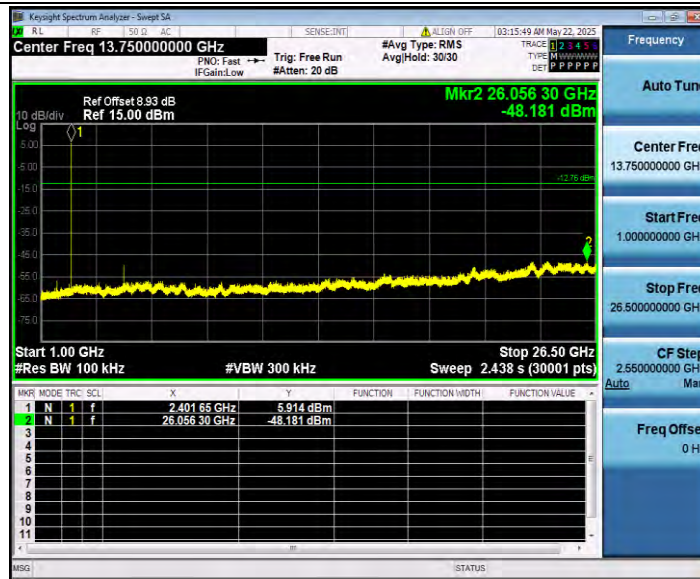
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.24	7.24	---	PASS
			30~1000	7.24	-60.65	≤ -12.76	PASS
			1000~26500	7.24	-48.18	≤ -12.76	PASS
		2441	Reference	10.37	10.37	---	PASS
			30~1000	10.37	-60.34	≤ -9.63	PASS
			1000~26500	10.37	-46.57	≤ -9.63	PASS
		2480	Reference	10.65	10.65	---	PASS
			30~1000	10.65	-59.56	≤ -9.35	PASS
			1000~26500	10.65	-47.68	≤ -9.35	PASS
2DH1	Ant1	2402	Reference	6.92	6.92	---	PASS
			30~1000	6.92	-60.47	≤ -13.08	PASS
			1000~26500	6.92	-47.42	≤ -13.08	PASS
		2441	Reference	10.15	10.15	---	PASS
			30~1000	10.15	-60.8	≤ -9.85	PASS
			1000~26500	10.15	-47.86	≤ -9.85	PASS
		2480	Reference	10.64	10.64	---	PASS
			30~1000	10.64	-60.83	≤ -9.36	PASS
			1000~26500	10.64	-47.62	≤ -9.36	PASS
3DH1	Ant1	2402	Reference	6.84	6.84	---	PASS
			30~1000	6.84	-60.84	≤ -13.16	PASS
			1000~26500	6.84	-47.76	≤ -13.16	PASS
		2441	Reference	10.54	10.54	---	PASS
			30~1000	10.54	-60.57	≤ -9.46	PASS
			1000~26500	10.54	-46.34	≤ -9.46	PASS
		2480	Reference	10.75	10.75	---	PASS
			30~1000	10.75	-61.04	≤ -9.25	PASS
			1000~26500	10.75	-47.32	≤ -9.25	PASS

Test Graphs

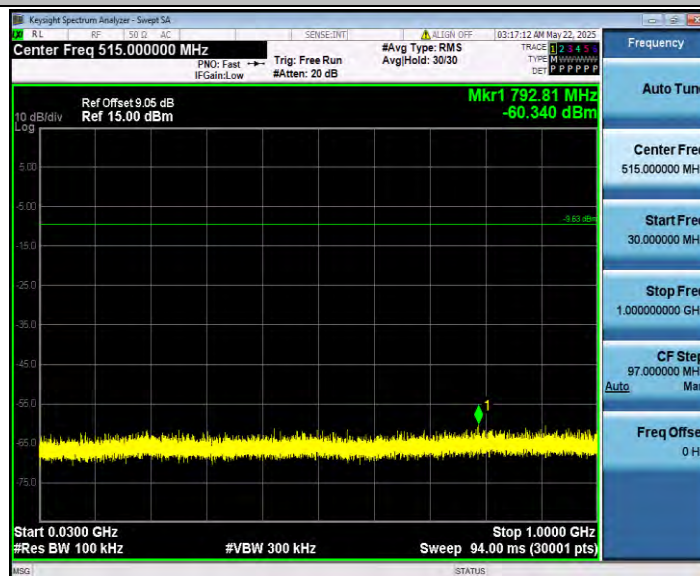




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



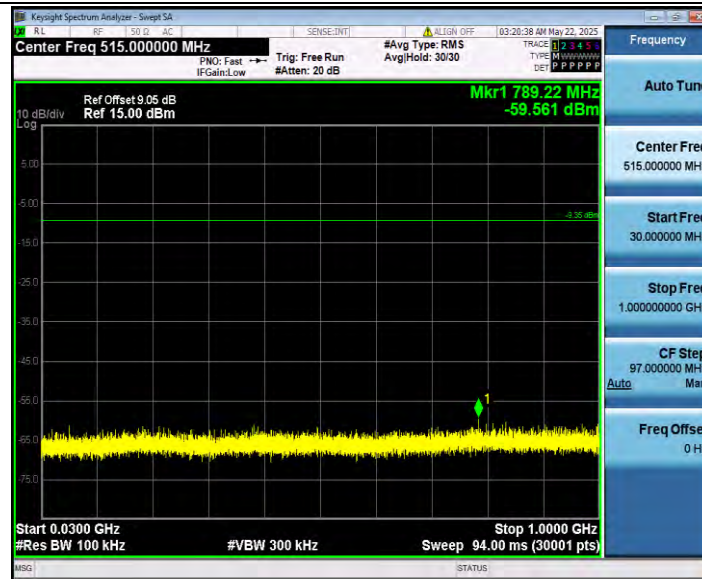
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

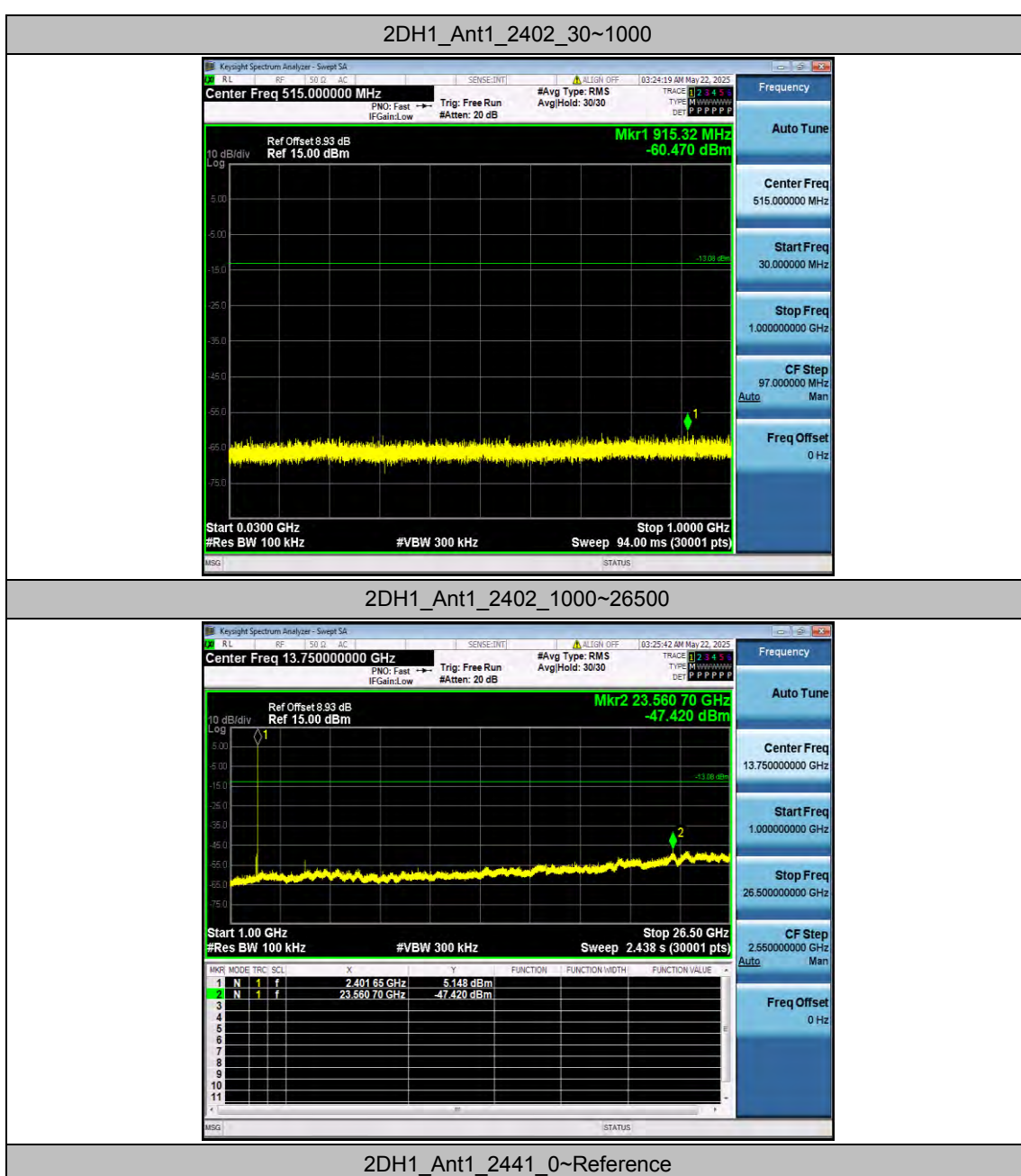


DH1_Ant1_2480_1000~26500



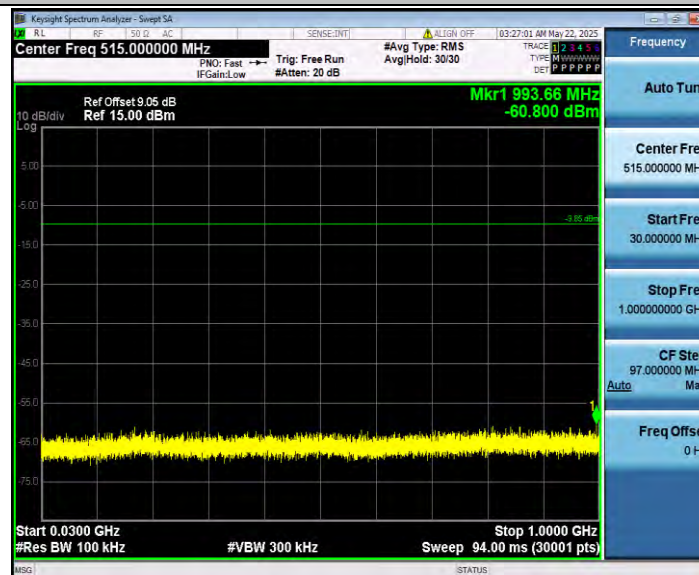
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



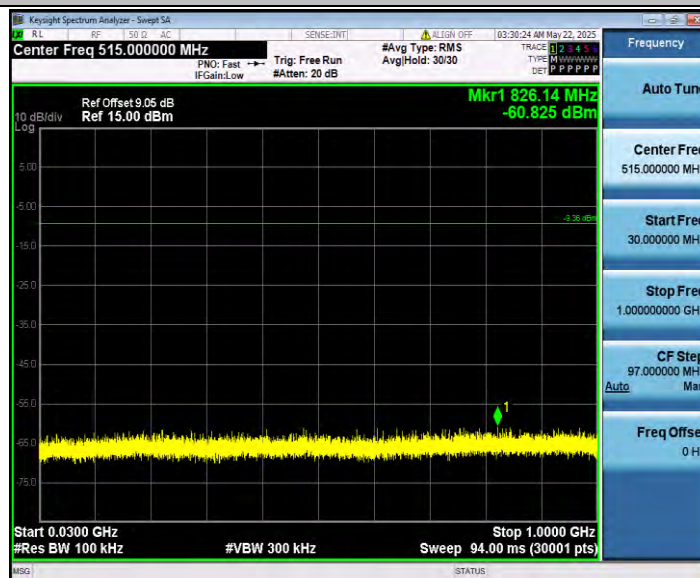
2DH1_Ant1_2441_1000~26500



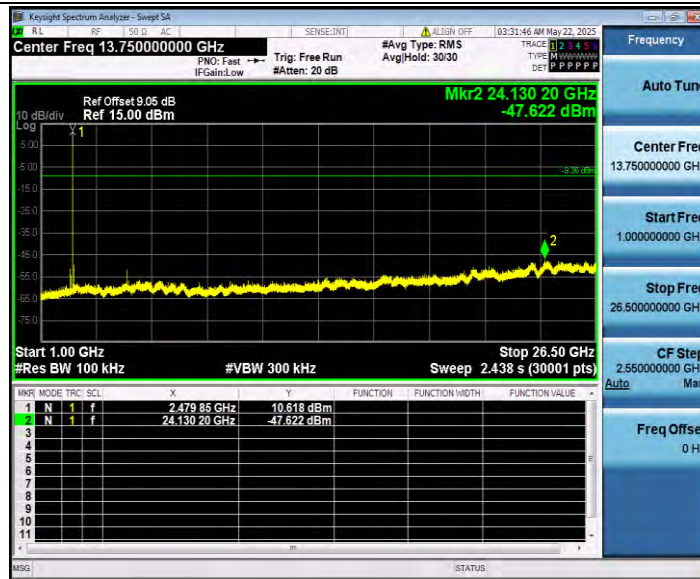
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



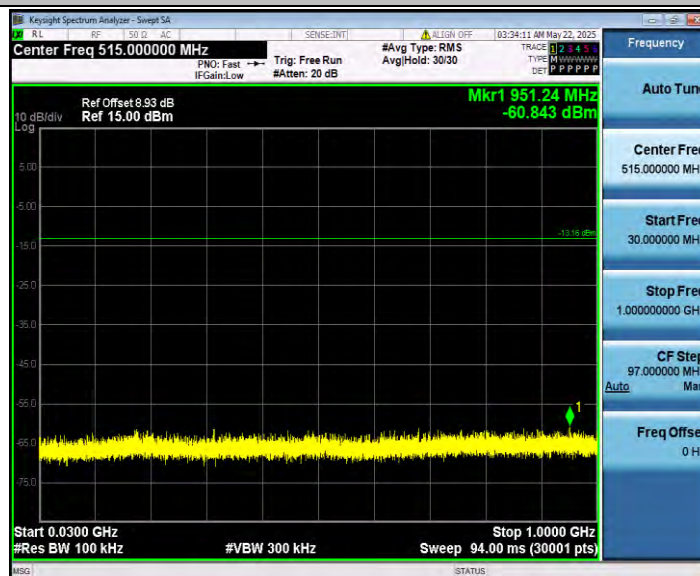
2DH1_Ant1_2480_1000~26500



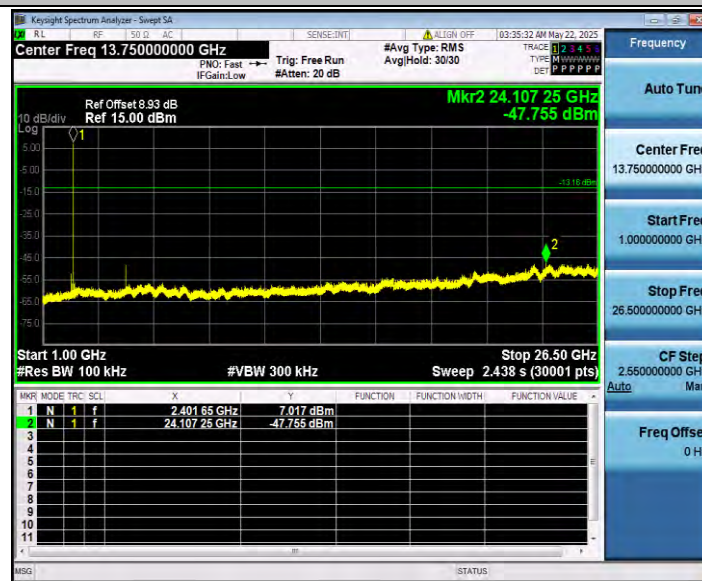
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



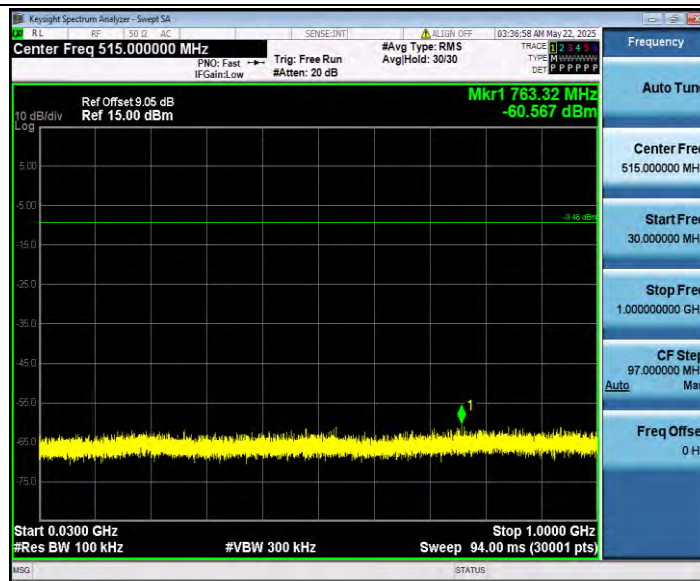
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

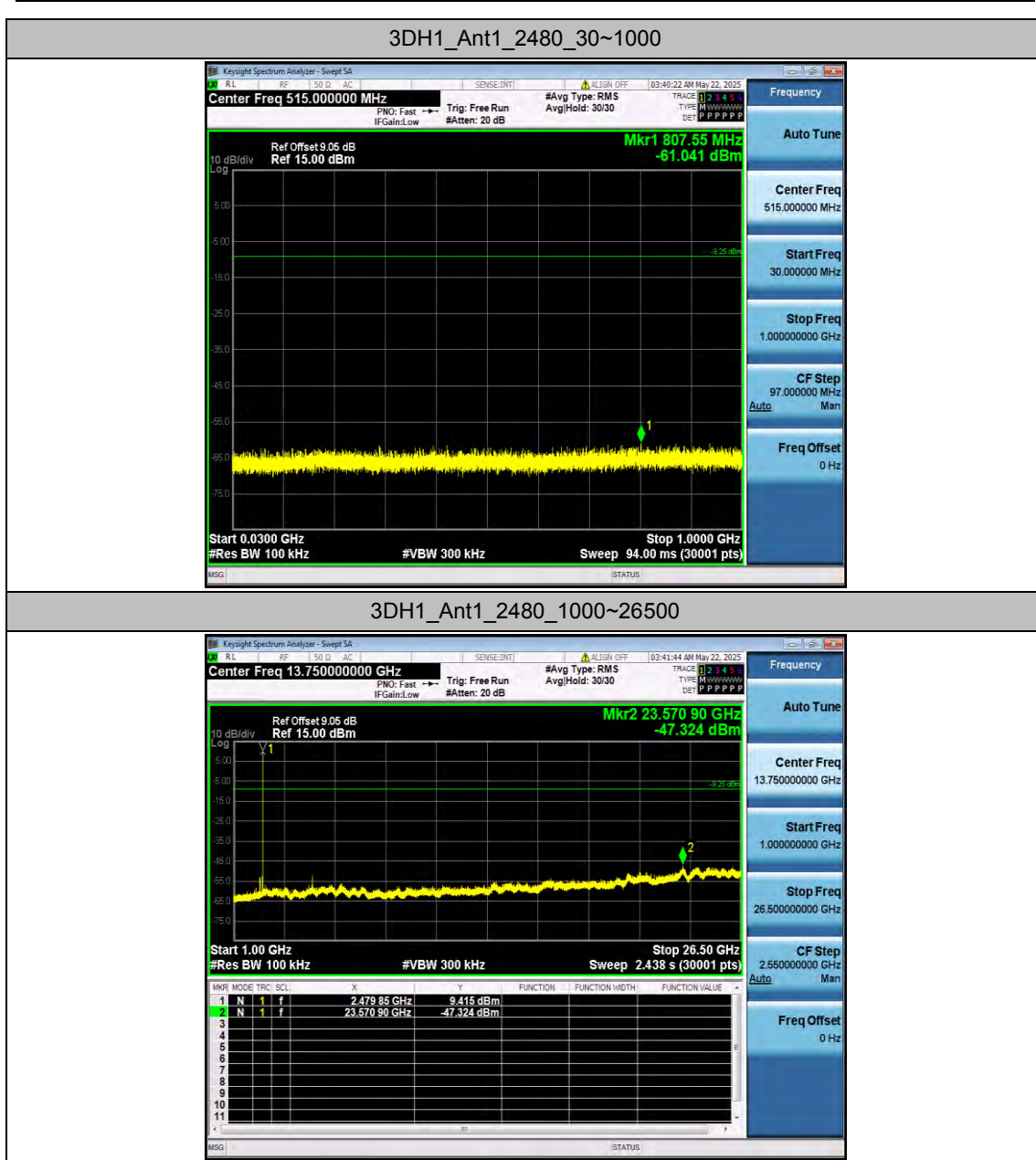


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

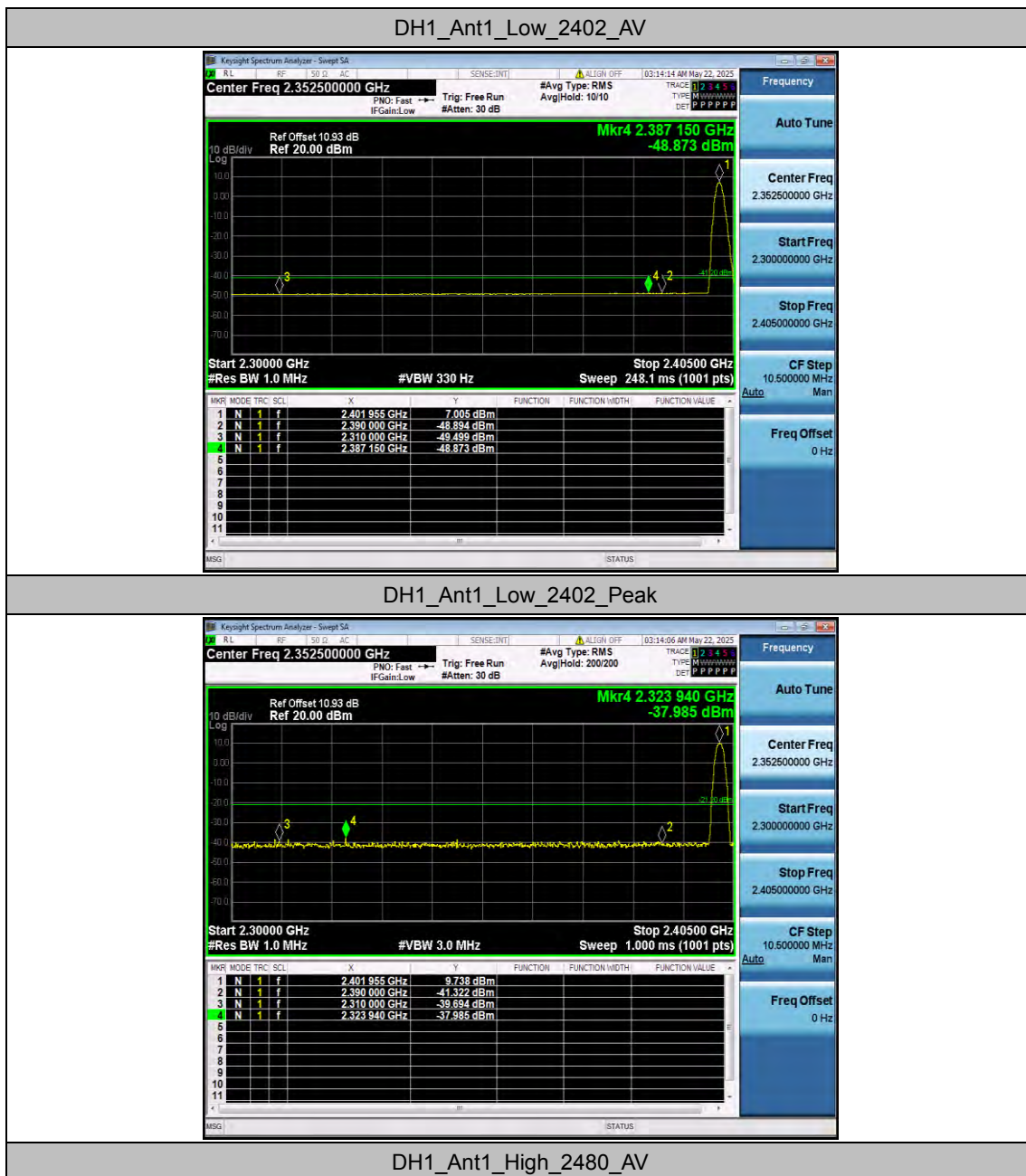
Test Result

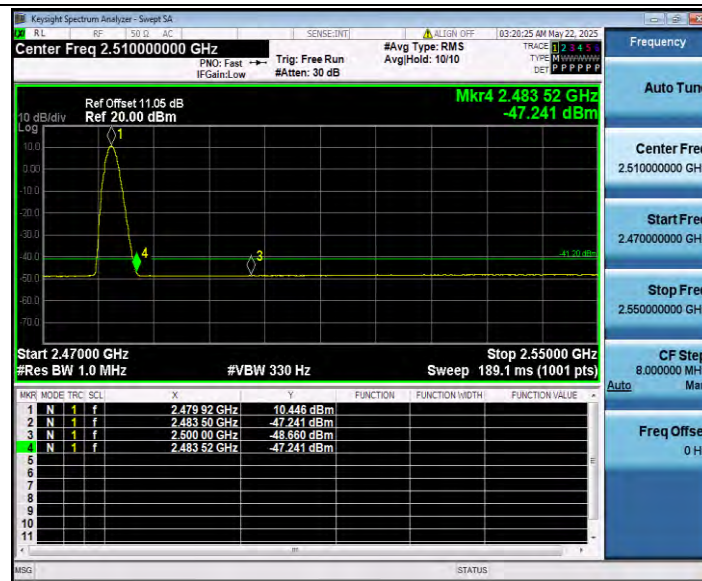
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.5	≤-41.20	45.70	≤54	PASS
				AV	2387.150	-48.87	≤-41.20	46.33	≤54	PASS
				AV	2390.000	-48.89	≤-41.20	46.31	≤54	PASS
				Peak	2310.000	-39.69	≤-21.20	55.51	≤74	PASS
				Peak	2323.940	-37.99	≤-21.20	57.21	≤74	PASS
				Peak	2390.000	-41.32	≤-21.20	53.88	≤74	PASS
		High	2480	AV	2483.500	-47.24	≤-41.20	47.96	≤54	PASS
				AV	2483.520	-47.24	≤-41.20	47.96	≤54	PASS
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2483.500	-41.02	≤-21.20	54.18	≤74	PASS
				Peak	2499.360	-38.59	≤-21.20	56.61	≤74	PASS
				Peak	2500.000	-40.38	≤-21.20	54.82	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.28	≤-41.20	45.92	≤54	PASS
				AV	2324.045	-47.1	≤-41.20	48.10	≤54	PASS
				AV	2390.000	-49.1	≤-41.20	46.10	≤54	PASS
				Peak	2310.000	-42	≤-21.20	53.20	≤74	PASS
				Peak	2370.245	-39.03	≤-21.20	56.17	≤74	PASS
				Peak	2390.000	-40.82	≤-21.20	54.38	≤74	PASS
		High	2480	AV	2483.500	-46.29	≤-41.20	48.91	≤54	PASS
				AV	2483.520	-46.29	≤-41.20	48.91	≤54	PASS
				AV	2500.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2483.500	-36.46	≤-21.20	58.74	≤74	PASS
				Peak	2483.520	-36.46	≤-21.20	58.74	≤74	PASS
				Peak	2500.000	-41.33	≤-21.20	53.87	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.3	≤-41.20	45.90	≤54	PASS
				AV	2338.010	-44.1	≤-41.20	51.10	≤54	PASS
				AV	2390.000	-49.05	≤-41.20	46.15	≤54	PASS
				Peak	2310.000	-41.65	≤-21.20	53.55	≤74	PASS
				Peak	2335.910	-34.75	≤-21.20	60.45	≤74	PASS
				Peak	2390.000	-40.85	≤-21.20	54.35	≤74	PASS
		High	2480	AV	2483.500	-46.5	≤-41.20	48.70	≤54	PASS
				AV	2483.520	-46.5	≤-41.20	48.70	≤54	PASS
				AV	2500.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2483.500	-38.74	≤-21.20	56.46	≤74	PASS
				Peak	2492.880	-38.34	≤-21.20	56.86	≤74	PASS
				Peak	2500.000	-41.57	≤-21.20	53.63	≤74	PASS

Note:

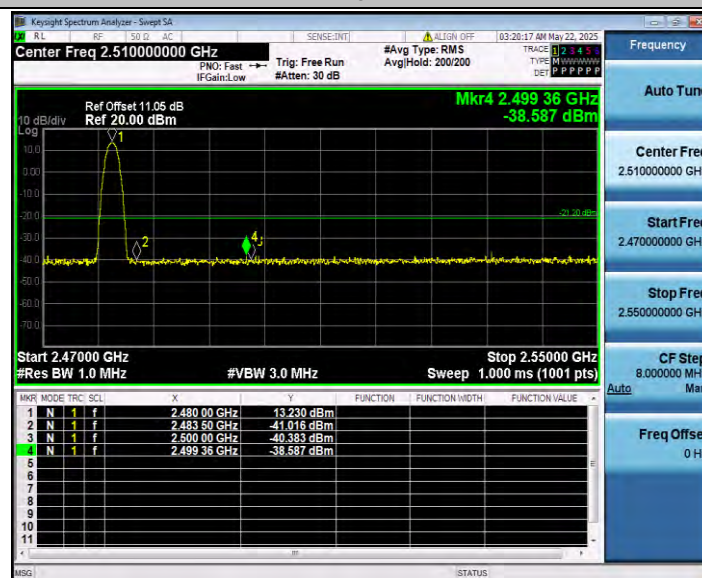
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

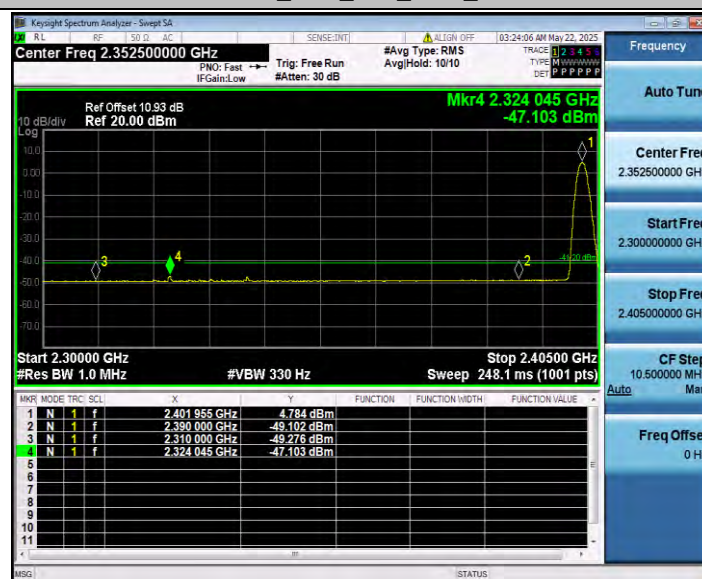




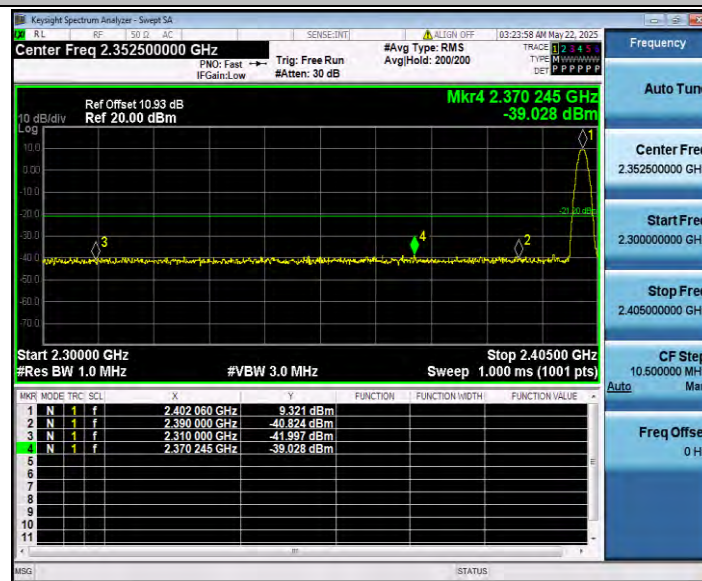
DH1_Ant1_High_2480_Peak



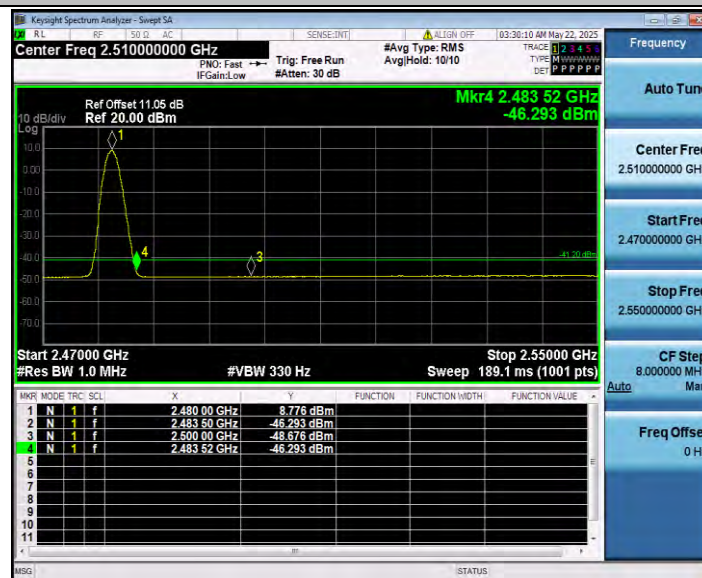
2DH1_Ant1_Low_2402_AV



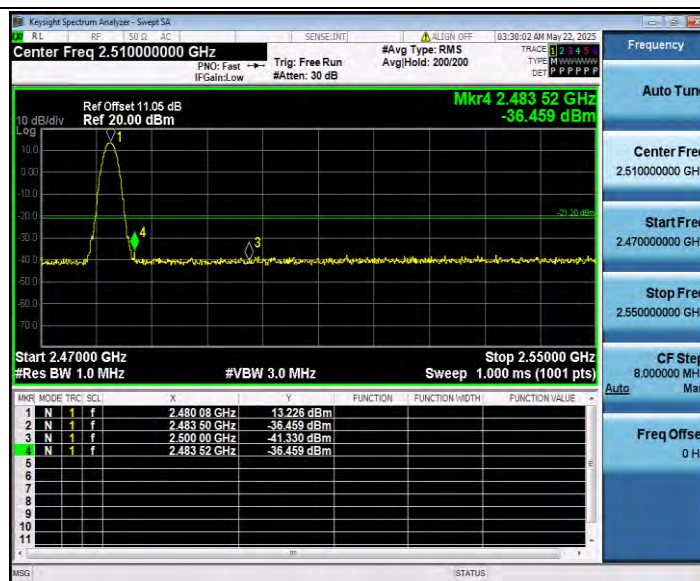
2DH1_Ant1_Low_2402_Peak



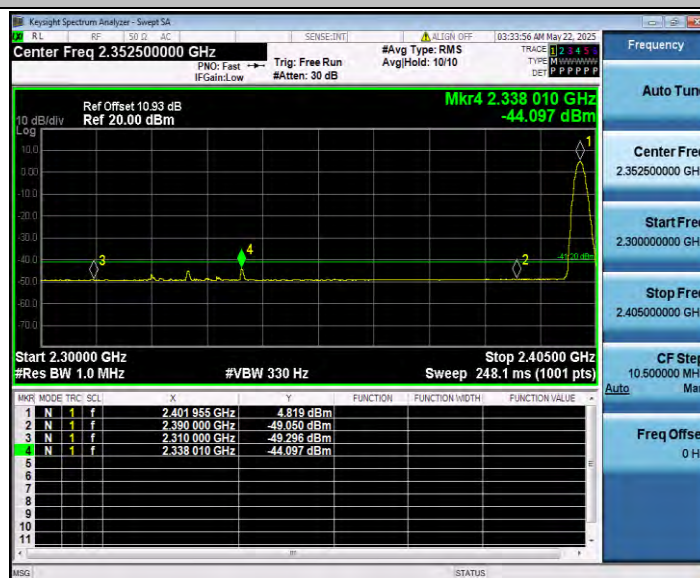
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

