

Case No. : <u>GTS20250510007-3-01</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.6.13-2025.7.14</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	0.825	2401.574	2402.399	---	---
		2441	0.789	2440.601	2441.390	---	---
		2480	0.792	2479.610	2480.402	---	---
2DH1	Ant1	2402	1.278	2401.364	2402.642	---	---
		2441	1.233	2440.376	2441.609	---	---
		2480	1.230	2479.391	2480.621	---	---
3DH1	Ant1	2402	1.257	2401.370	2402.627	---	---
		2441	1.245	2440.379	2441.624	---	---
		2480	1.227	2479.397	2480.624	---	---

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



3DH1_Ant1_2480

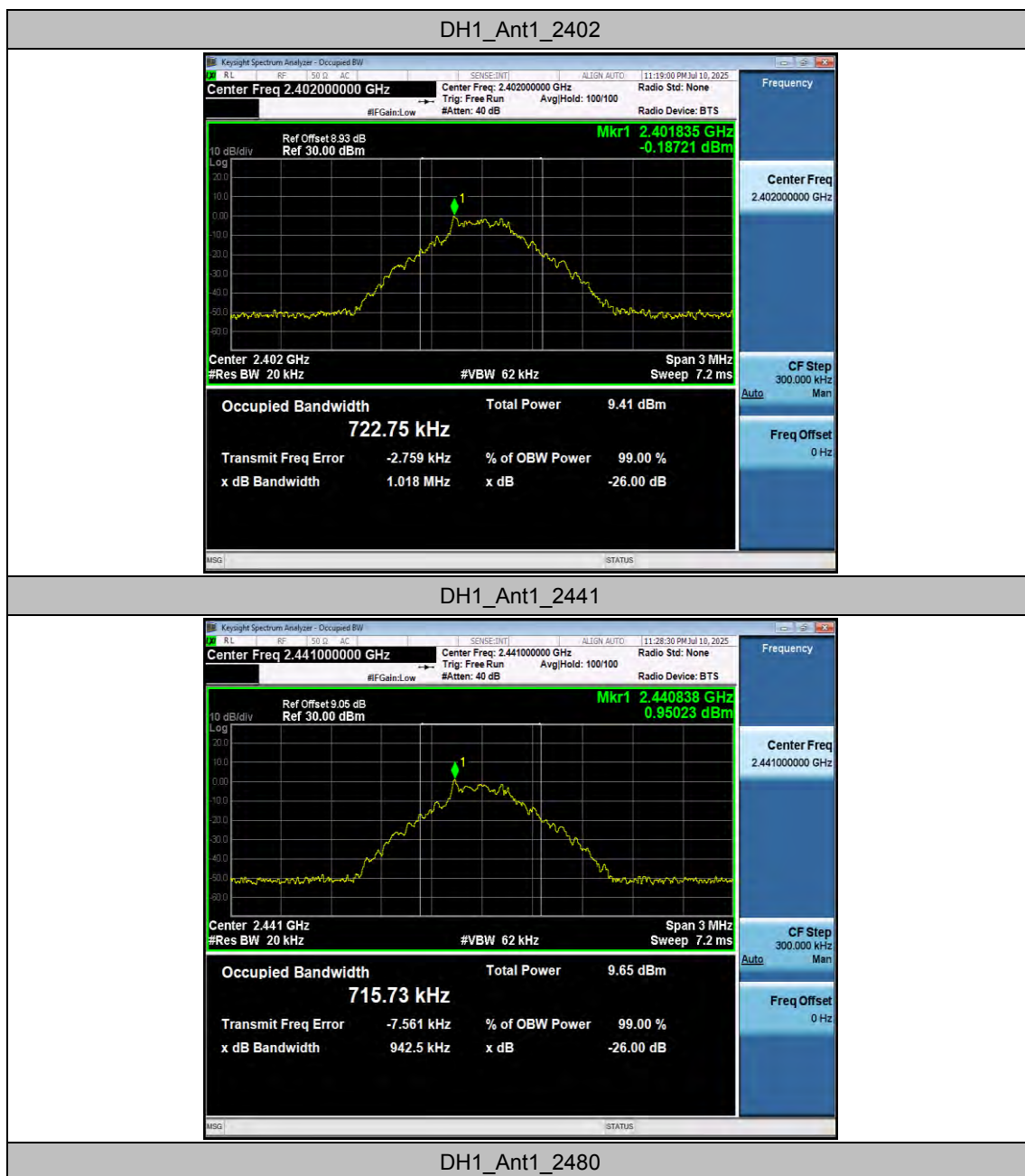


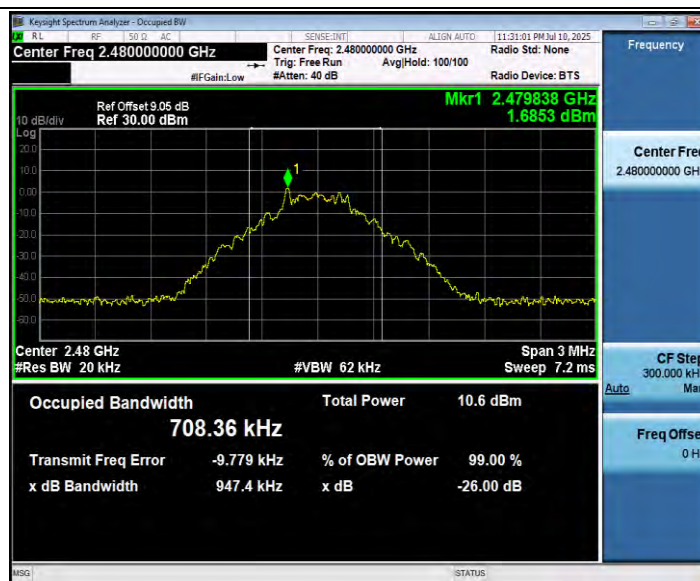
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.72275	2401.6359	2402.3586	---	---
		2441	0.71573	2440.6346	2441.3503	---	---
		2480	0.70836	2479.6360	2480.3444	---	---
2DH1	Ant1	2402	1.1406	2401.4288	2402.5694	---	---
		2441	1.1229	2440.4382	2441.5611	---	---
		2480	1.1352	2479.4307	2480.5659	---	---
3DH1	Ant1	2402	1.1407	2401.4386	2402.5793	---	---
		2441	1.1318	2440.4426	2441.5744	---	---
		2480	1.1355	2479.4385	2480.5740	---	---

Test Graphs





2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



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	4.73	≤20.97	PASS
		2441	4.84	≤20.97	PASS
		2480	5.78	≤20.97	PASS
2DH1	Ant1	2402	5.94	≤20.97	PASS
		2441	6.28	≤20.97	PASS
		2480	7.26	≤20.97	PASS
3DH1	Ant1	2402	5.91	≤20.97	PASS
		2441	6.25	≤20.97	PASS
		2480	7.26	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.008	≥ 0.550	PASS
		Hop_2441	1.31	≥ 0.550	PASS
		Hop_2480	0.82	≥ 0.550	PASS
2DH1	Ant1	Hop_2402	1.002	≥ 0.852	PASS
		Hop_2441	0.998	≥ 0.852	PASS
		Hop_2480	1	≥ 0.852	PASS
3DH1	Ant1	Hop_2402	1.02	≥ 0.838	PASS
		Hop_2441	0.982	≥ 0.838	PASS
		Hop_2480	1.012	≥ 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



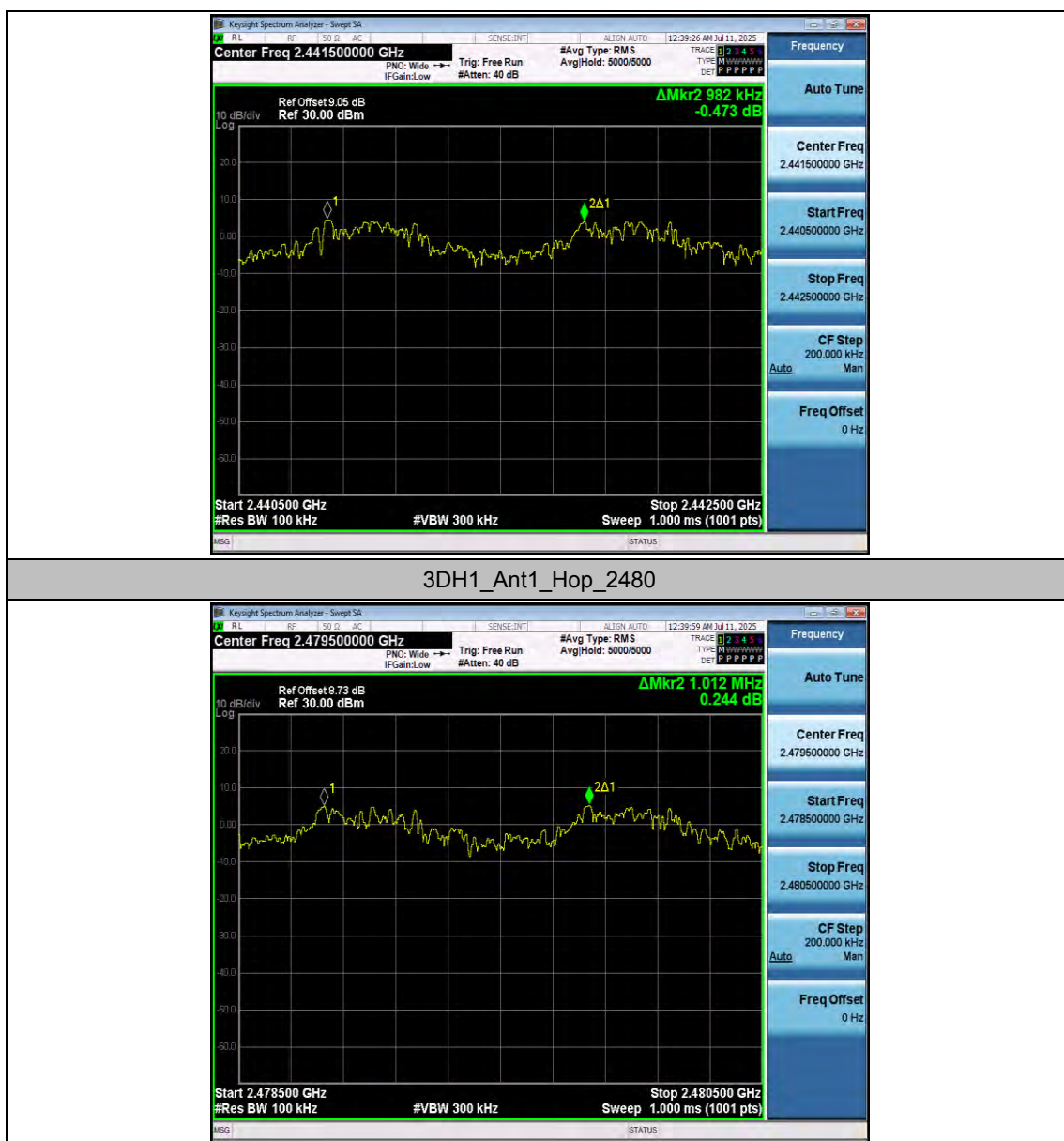
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

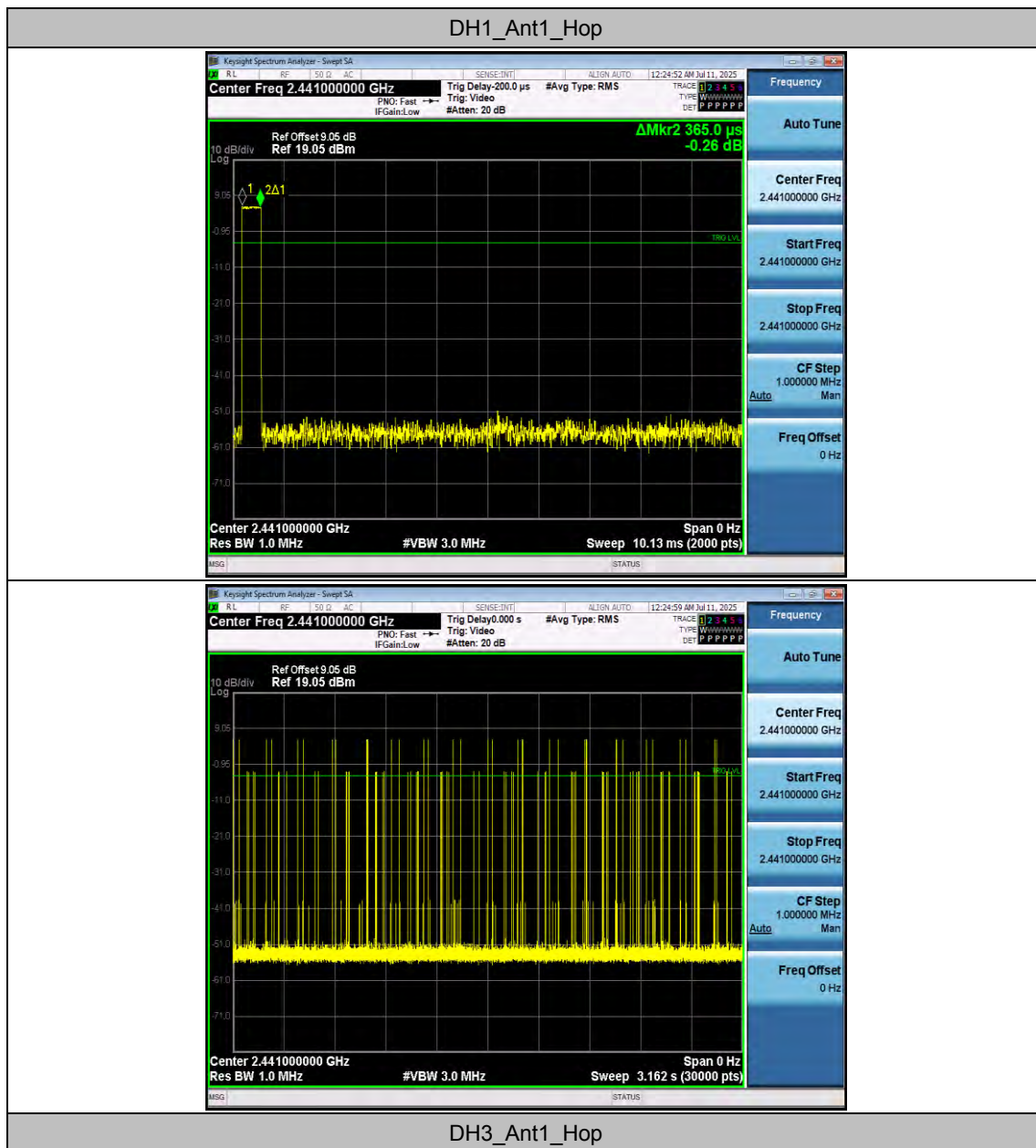


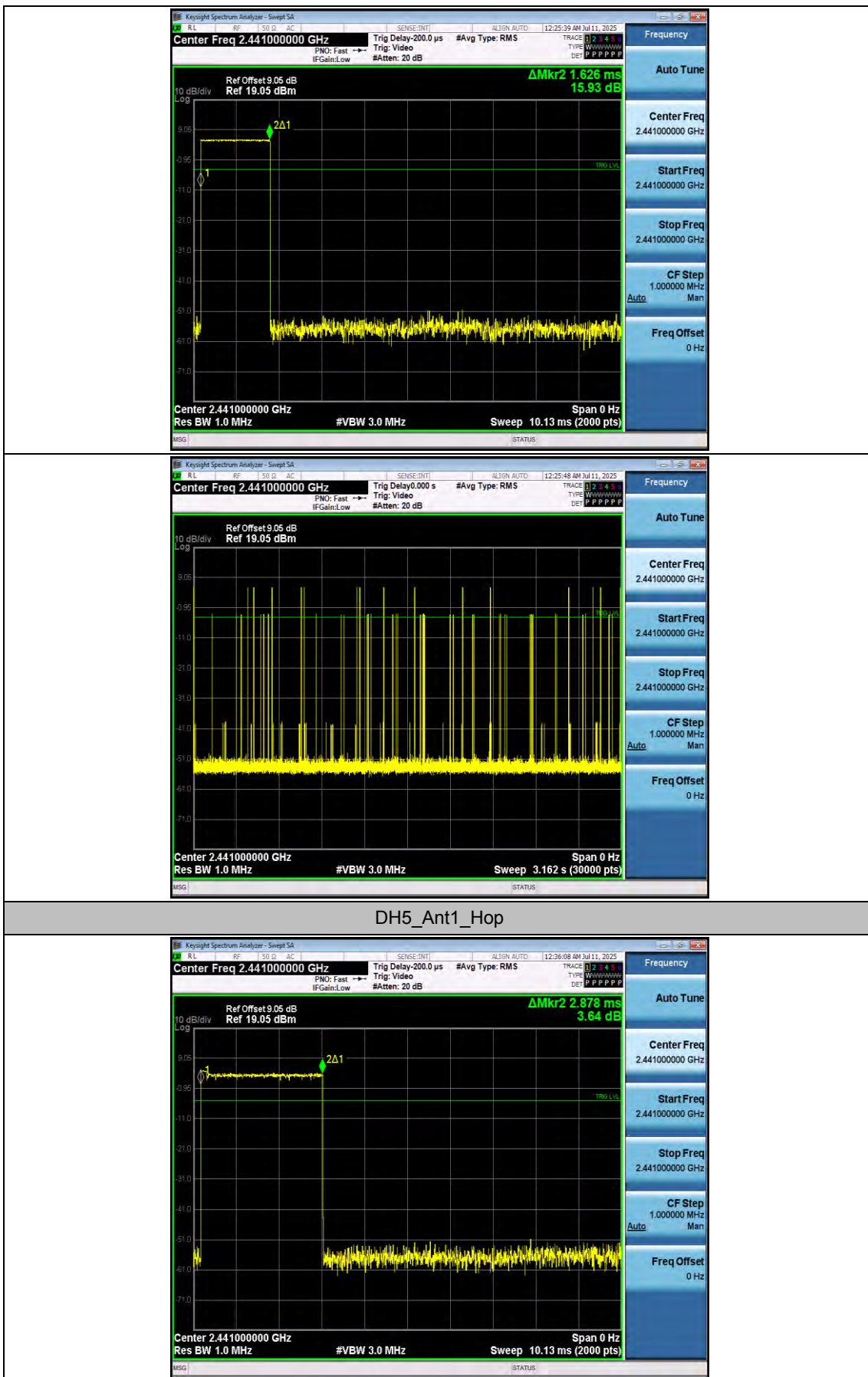
Appendix A.5: Time of occupancy

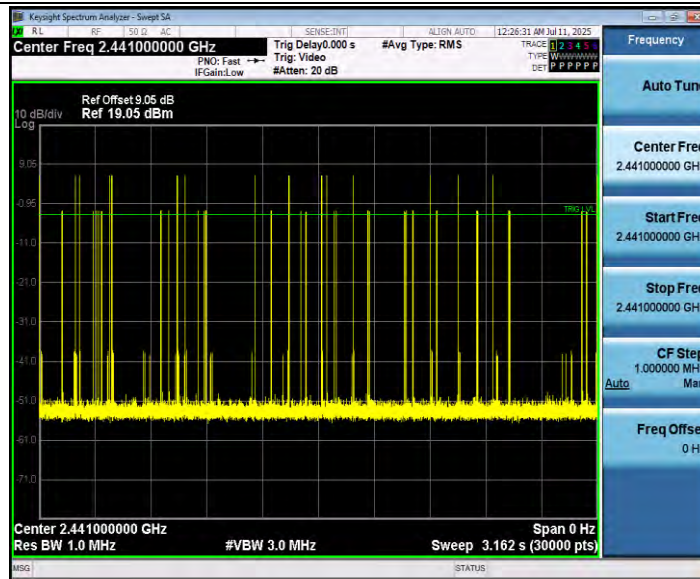
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.365	320	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.626	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.878	110	0.317	≤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	320	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.626	170	0.276	≤0.4	PASS
3DH5	Ant1	Hop	2.878	130	0.374	≤0.4	PASS

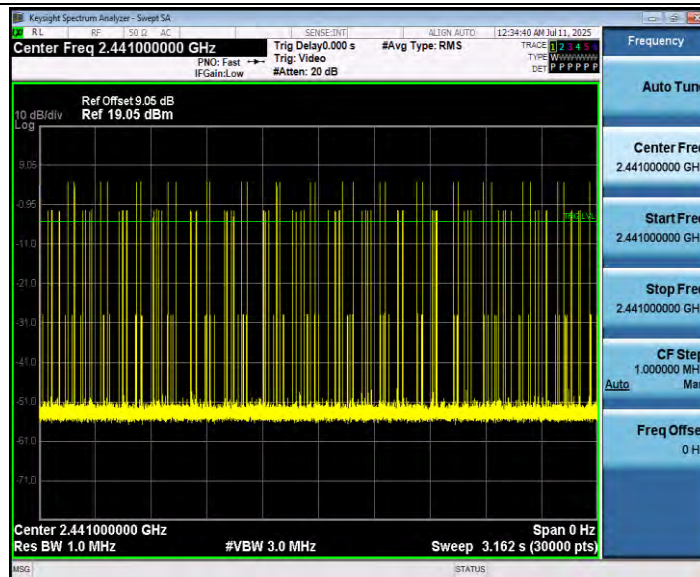
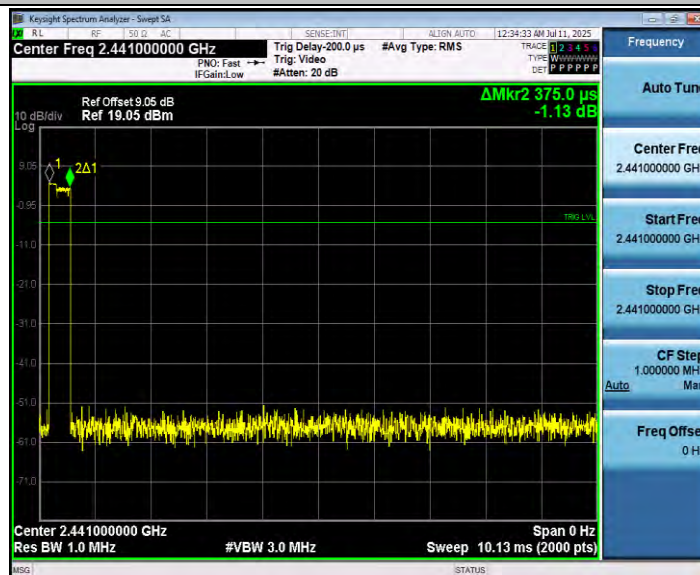
Test Graphs



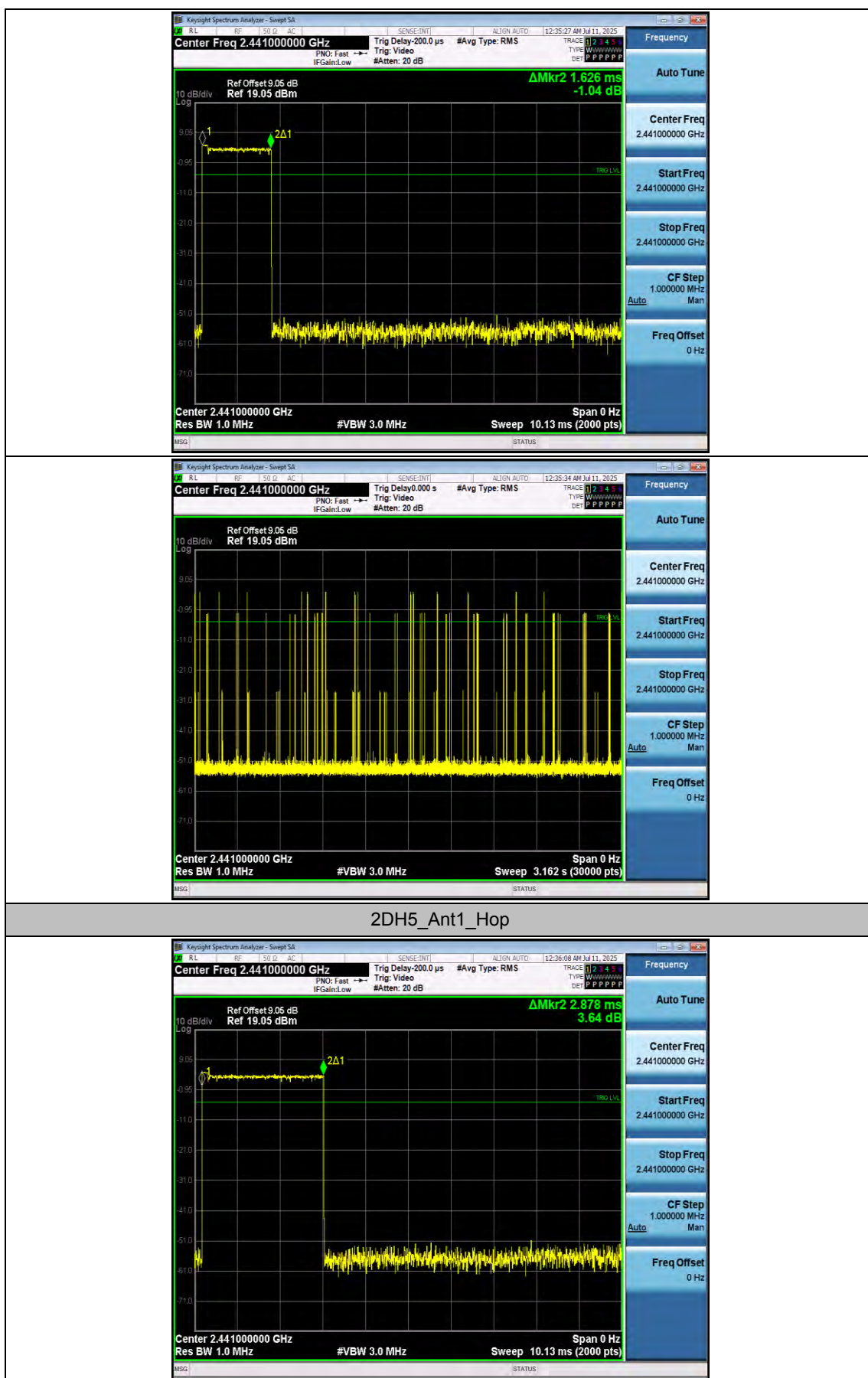


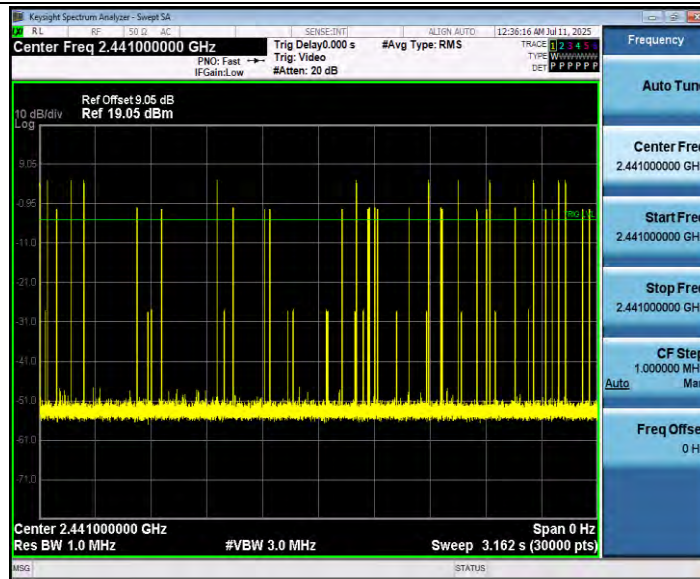


2DH1_Ant1_Hop

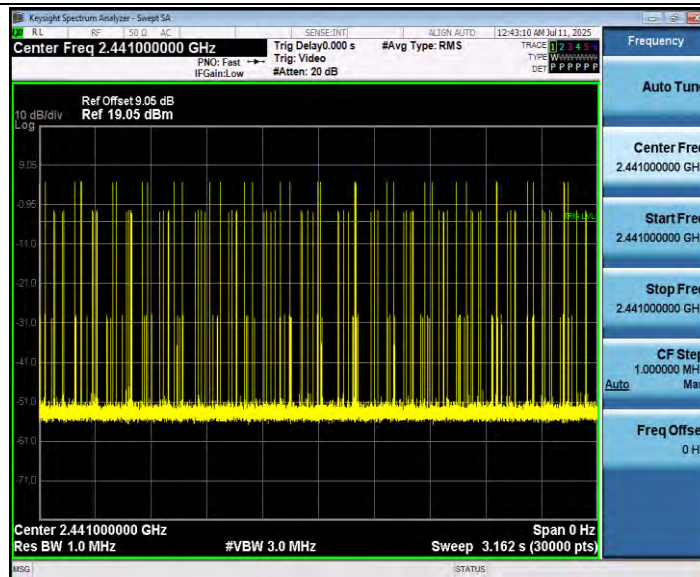
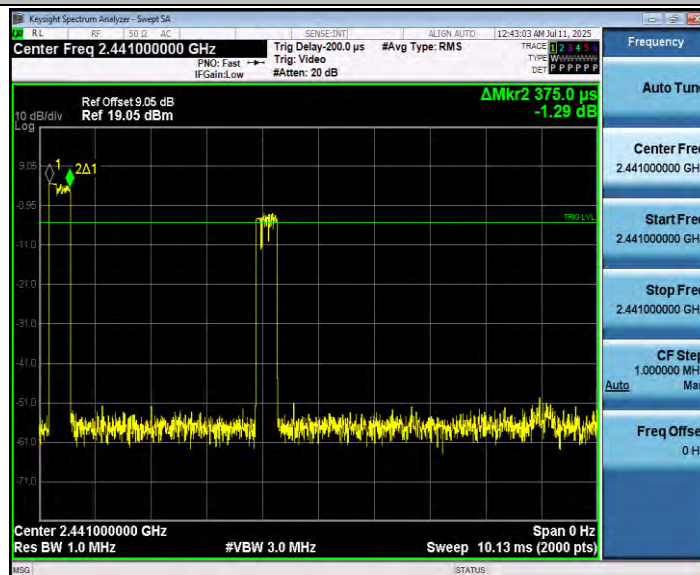


2DH3_Ant1_Hop

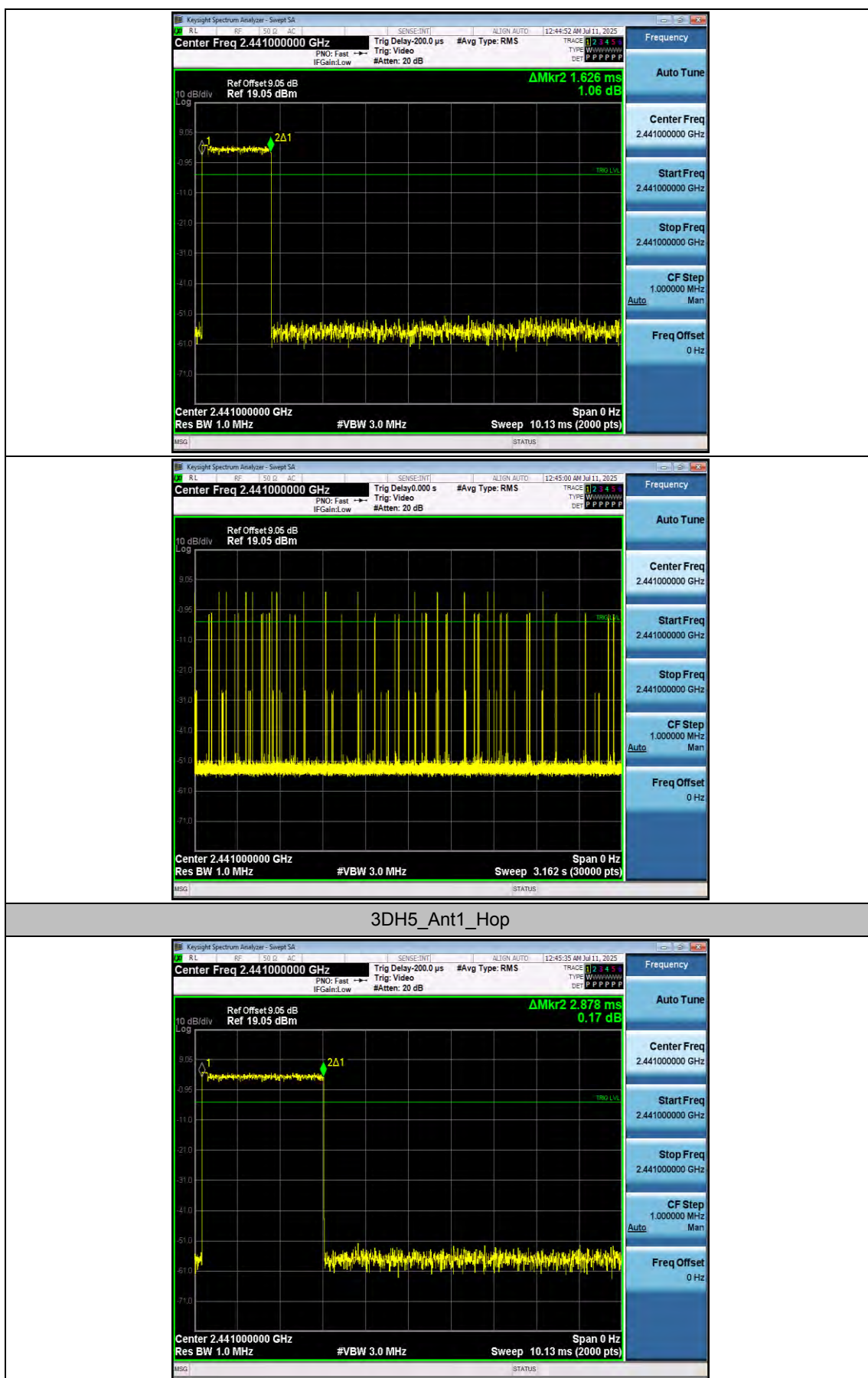




3DH1_Ant1_Hop



3DH3_Ant1_Hop



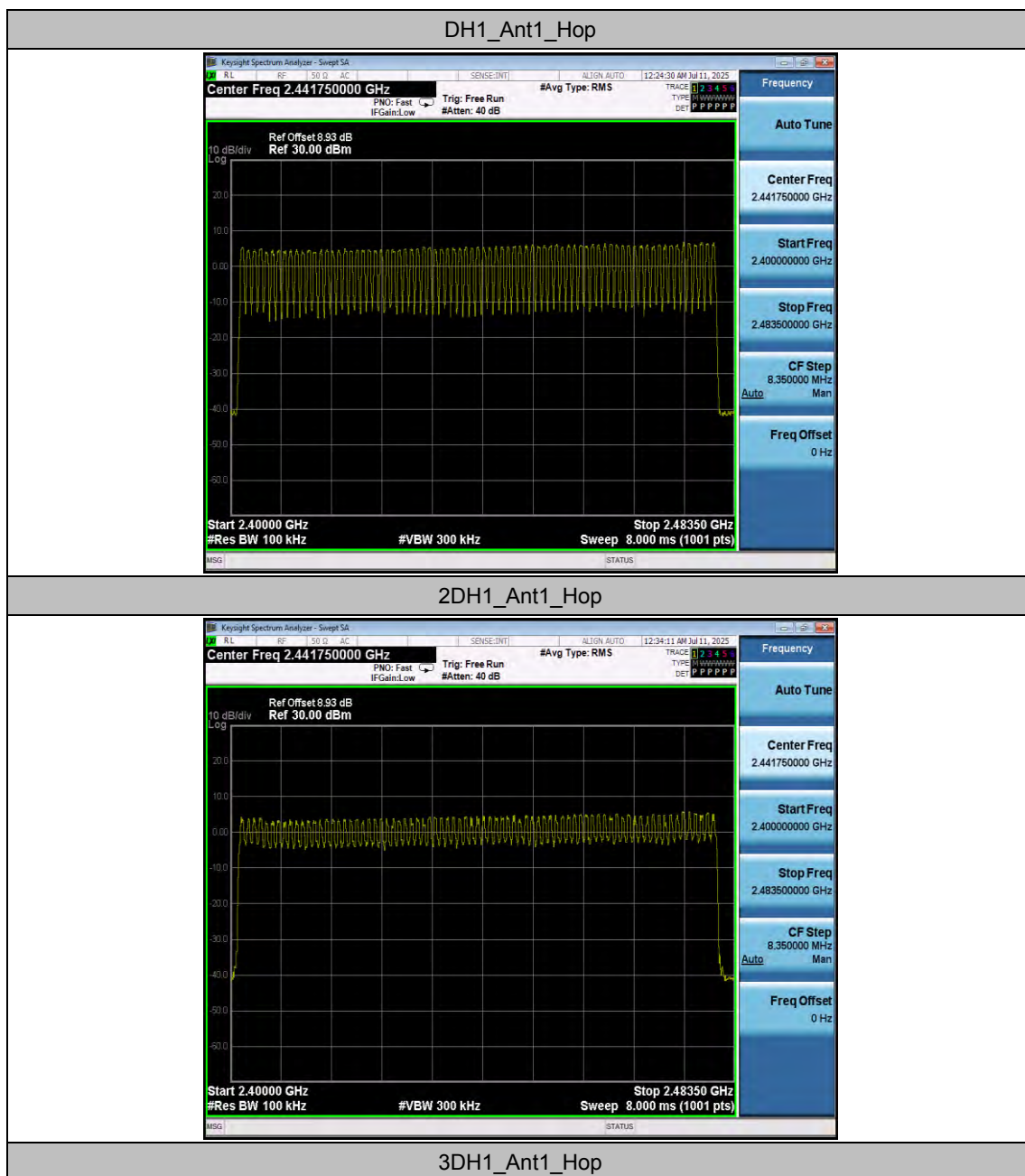


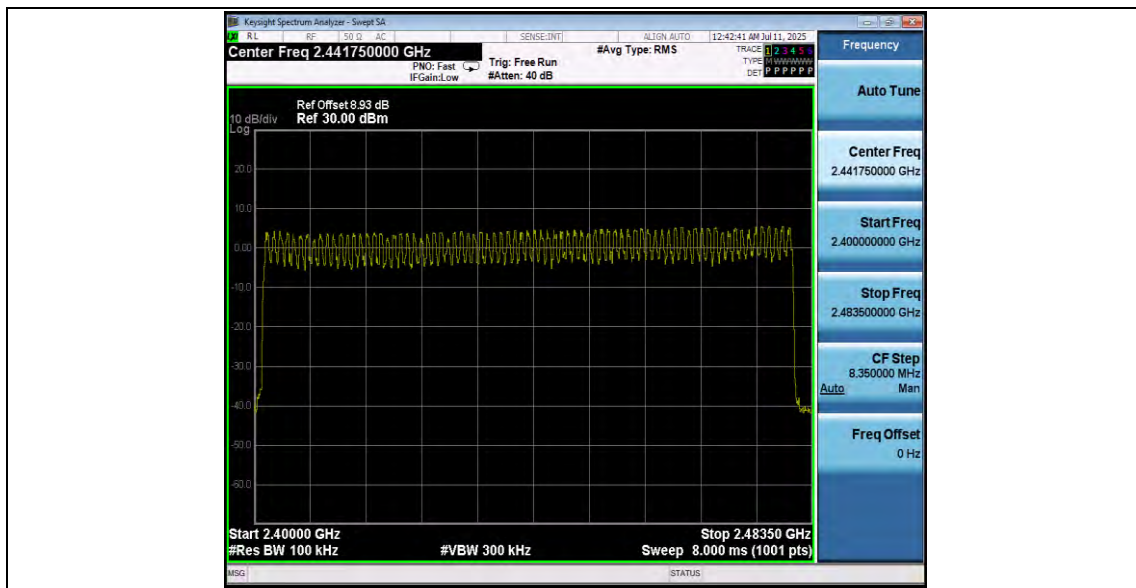
Appendix A.6: Number of hopping channels

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





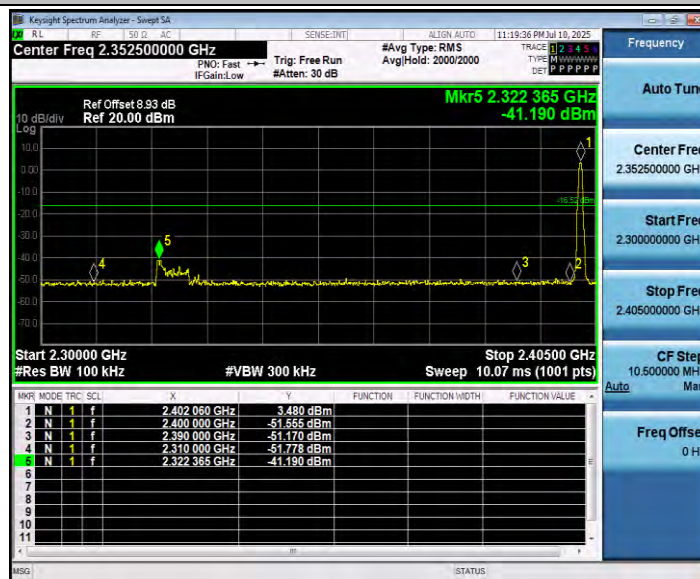
Appendix A.7: Band edge measurements

Test Result

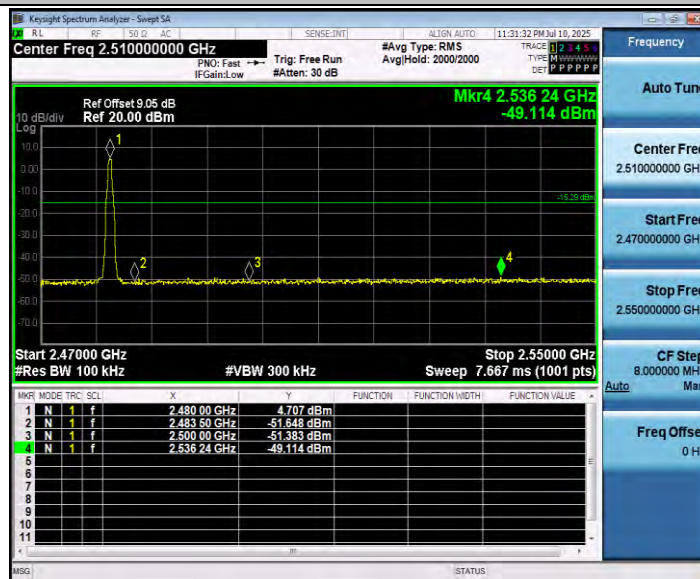
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	3.48	-41.19	≤ -16.52	PASS
		High	2480	4.71	-49.11	≤ -15.29	PASS
		Low	Hop_2402	5.14	-49.78	≤ -14.86	PASS
		High	Hop_2480	6.94	-49.01	≤ -13.06	PASS
2DH1	Ant1	Low	2402	4.56	-48.93	≤ -15.44	PASS
		High	2480	6.09	-48.69	≤ -13.91	PASS
		Low	Hop_2402	4.41	-48.91	≤ -15.59	PASS
		High	Hop_2480	5.27	-48.85	≤ -14.73	PASS
3DH1	Ant1	Low	2402	4.64	-49.49	≤ -15.36	PASS
		High	2480	6.08	-49	≤ -13.93	PASS
		Low	Hop_2402	3.66	-49.4	≤ -16.34	PASS
		High	Hop_2480	5.45	-48.45	≤ -14.56	PASS

Test Graphs

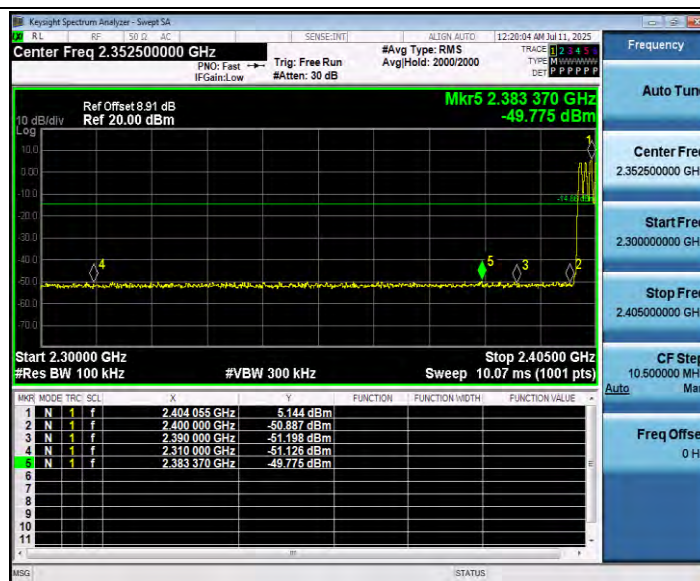
DH1_Ant1_Low_2402



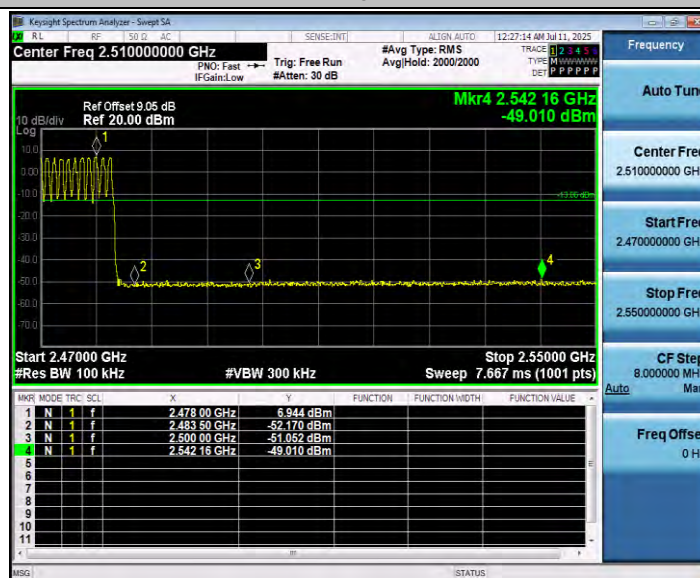
DH1_Ant1_High_2480



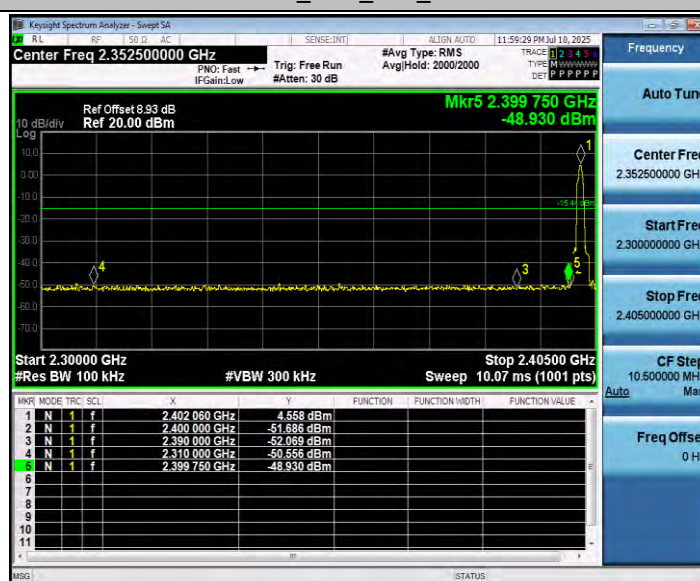
DH1_Ant1_Low_Hop_2402



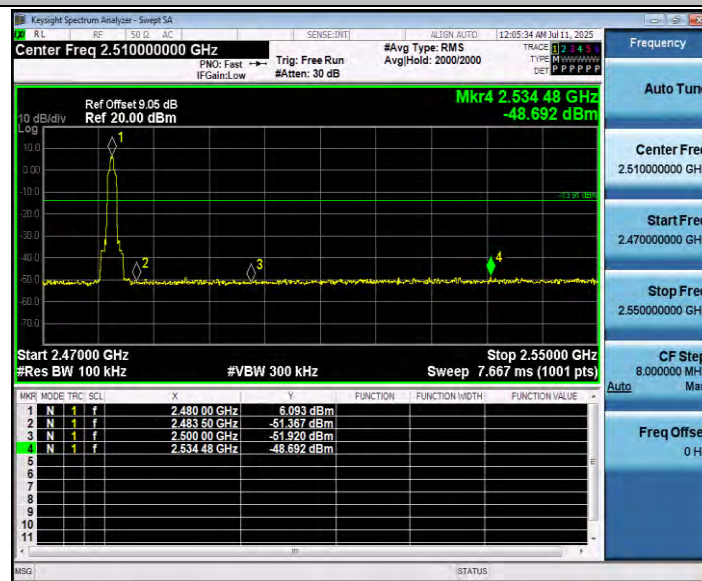
DH1_Ant1_High_Hop_2480



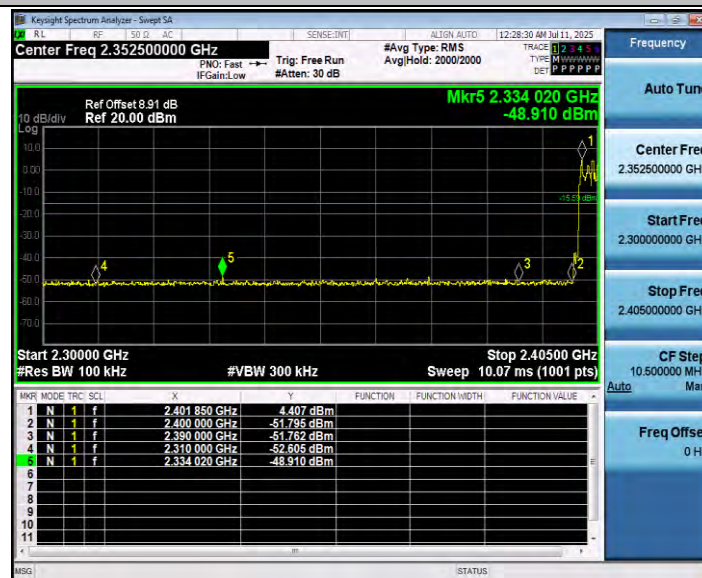
2DH1_Ant1_Low_2402



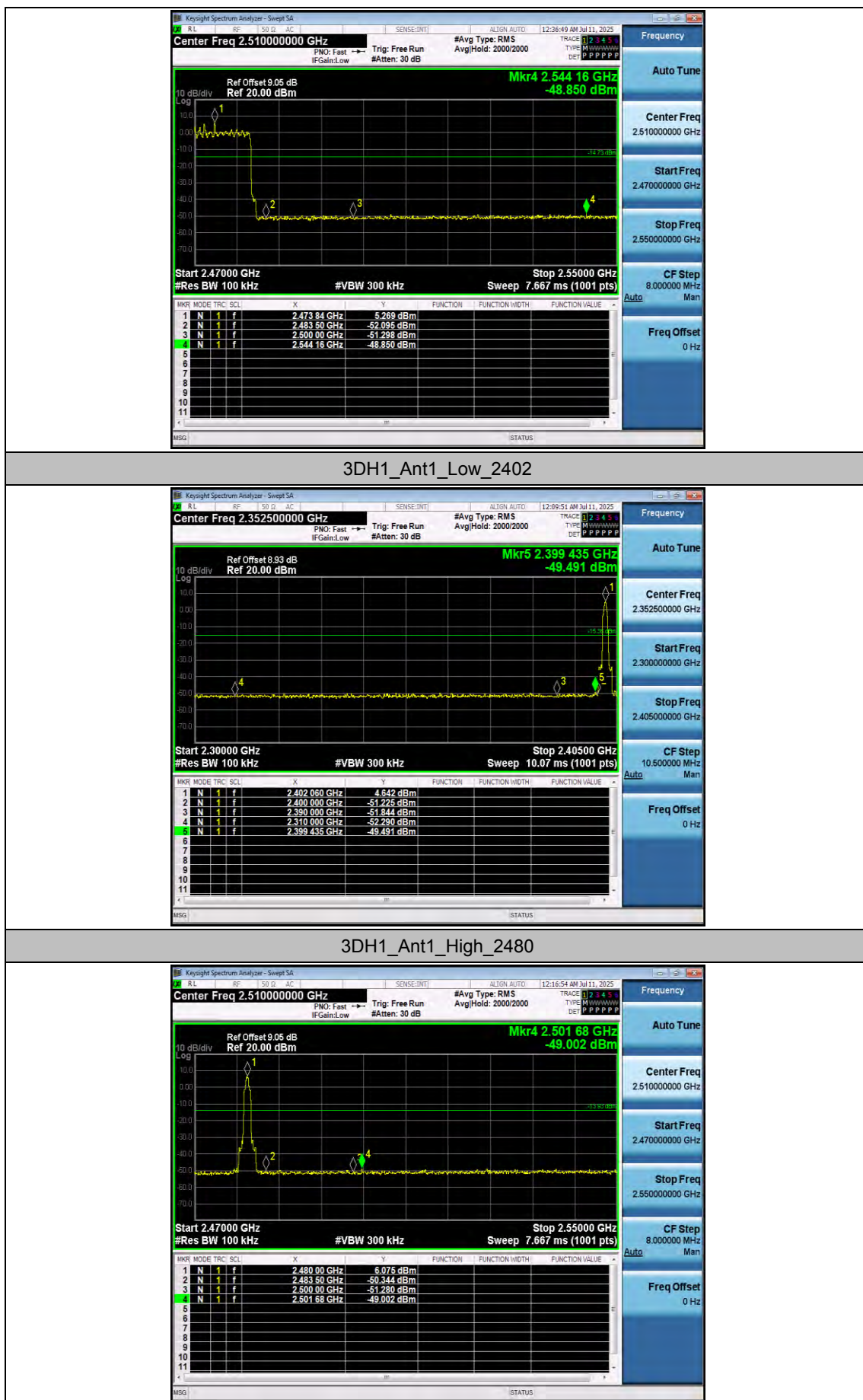
2DH1_Ant1_High_2480



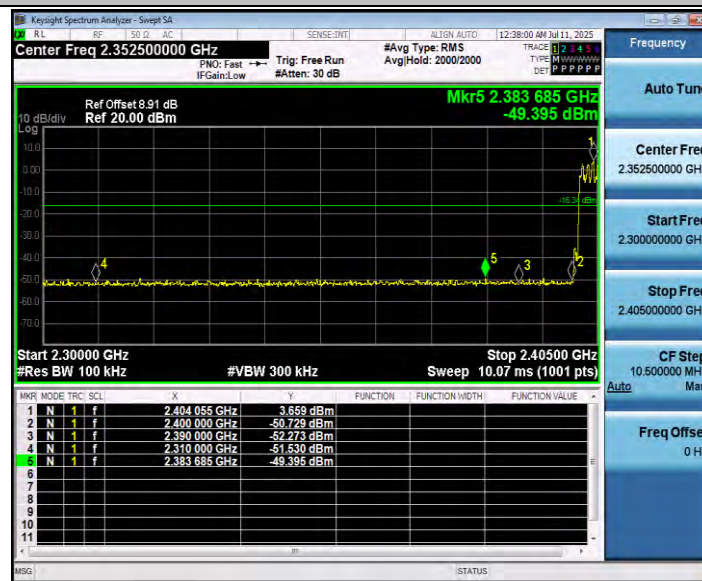
2DH1_Ant1_Low_Hop_2402



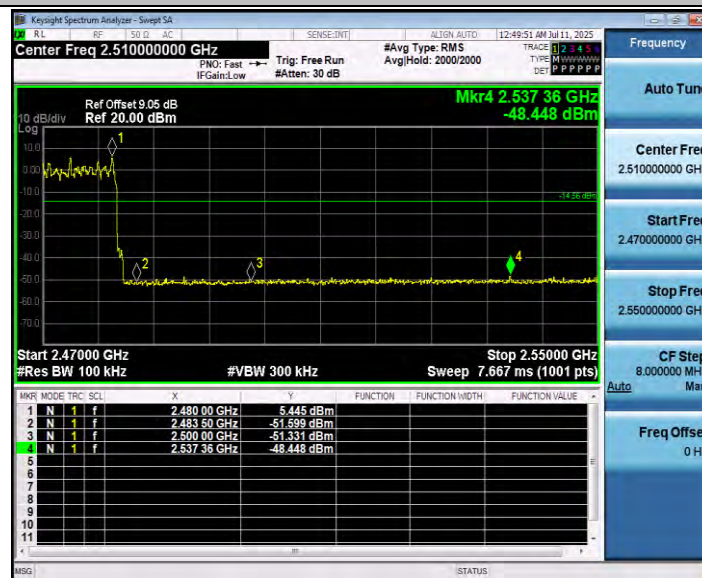
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

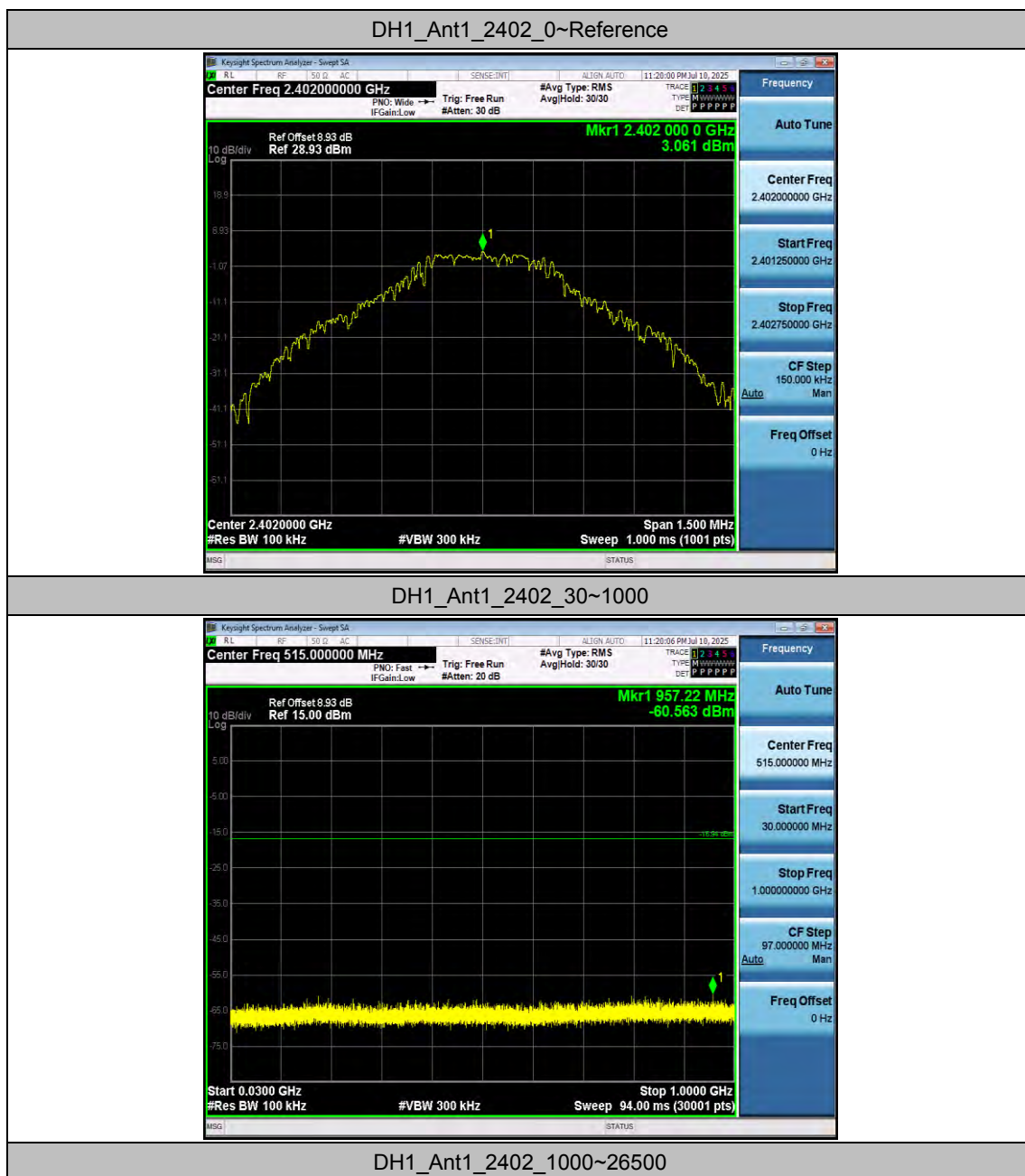


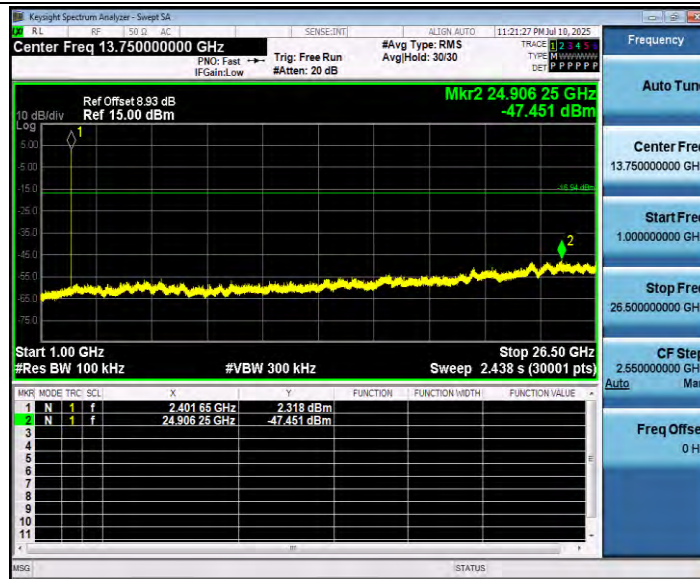
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	3.06	3.06	---	PASS
			30~1000	3.06	-60.56	≤ -16.94	PASS
			1000~26500	3.06	-47.45	≤ -16.94	PASS
		2441	Reference	3.17	3.17	---	PASS
			30~1000	3.17	-60.47	≤ -16.83	PASS
			1000~26500	3.17	-47.5	≤ -16.83	PASS
		2480	Reference	4.19	4.19	---	PASS
			30~1000	4.19	-60.34	≤ -15.81	PASS
			1000~26500	4.19	-48.13	≤ -15.81	PASS
2DH1	Ant1	2402	Reference	4.23	4.23	---	PASS
			30~1000	4.23	-60.59	≤ -15.77	PASS
			1000~26500	4.23	-47.62	≤ -15.77	PASS
		2441	Reference	4.78	4.78	---	PASS
			30~1000	4.78	-60.58	≤ -15.22	PASS
			1000~26500	4.78	-47.41	≤ -15.22	PASS
		2480	Reference	5.75	5.75	---	PASS
			30~1000	5.75	-59.81	≤ -14.25	PASS
			1000~26500	5.75	-48.16	≤ -14.25	PASS
3DH1	Ant1	2402	Reference	3.45	3.45	---	PASS
			30~1000	3.45	-60.28	≤ -16.55	PASS
			1000~26500	3.45	-47.98	≤ -16.55	PASS
		2441	Reference	4.10	4.10	---	PASS
			30~1000	4.10	-60.03	≤ -15.9	PASS
			1000~26500	4.10	-47.79	≤ -15.9	PASS
		2480	Reference	5.63	5.63	---	PASS
			30~1000	5.63	-60.76	≤ -14.37	PASS
			1000~26500	5.63	-47.67	≤ -14.37	PASS

Test Graphs

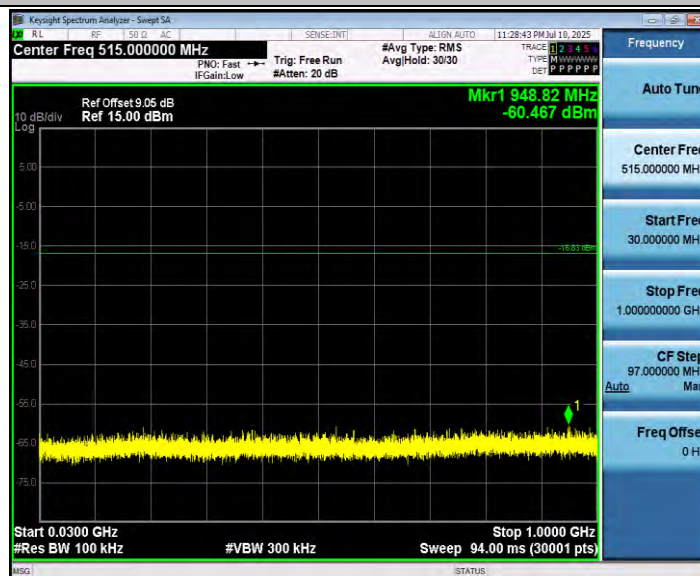




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



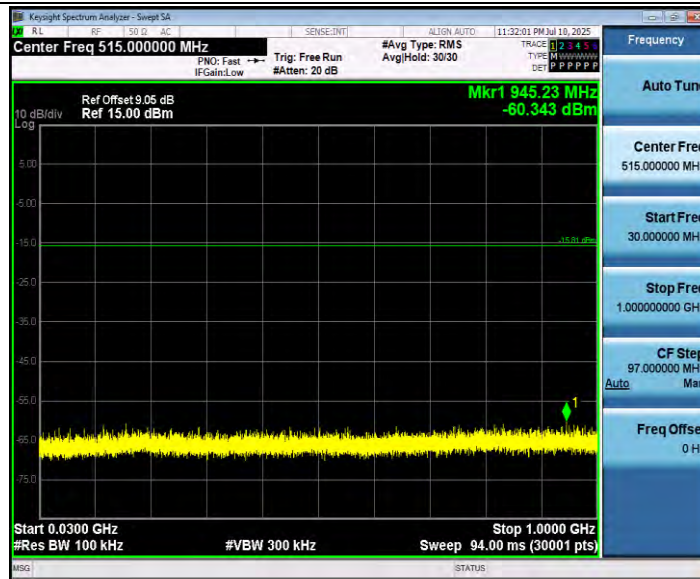
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

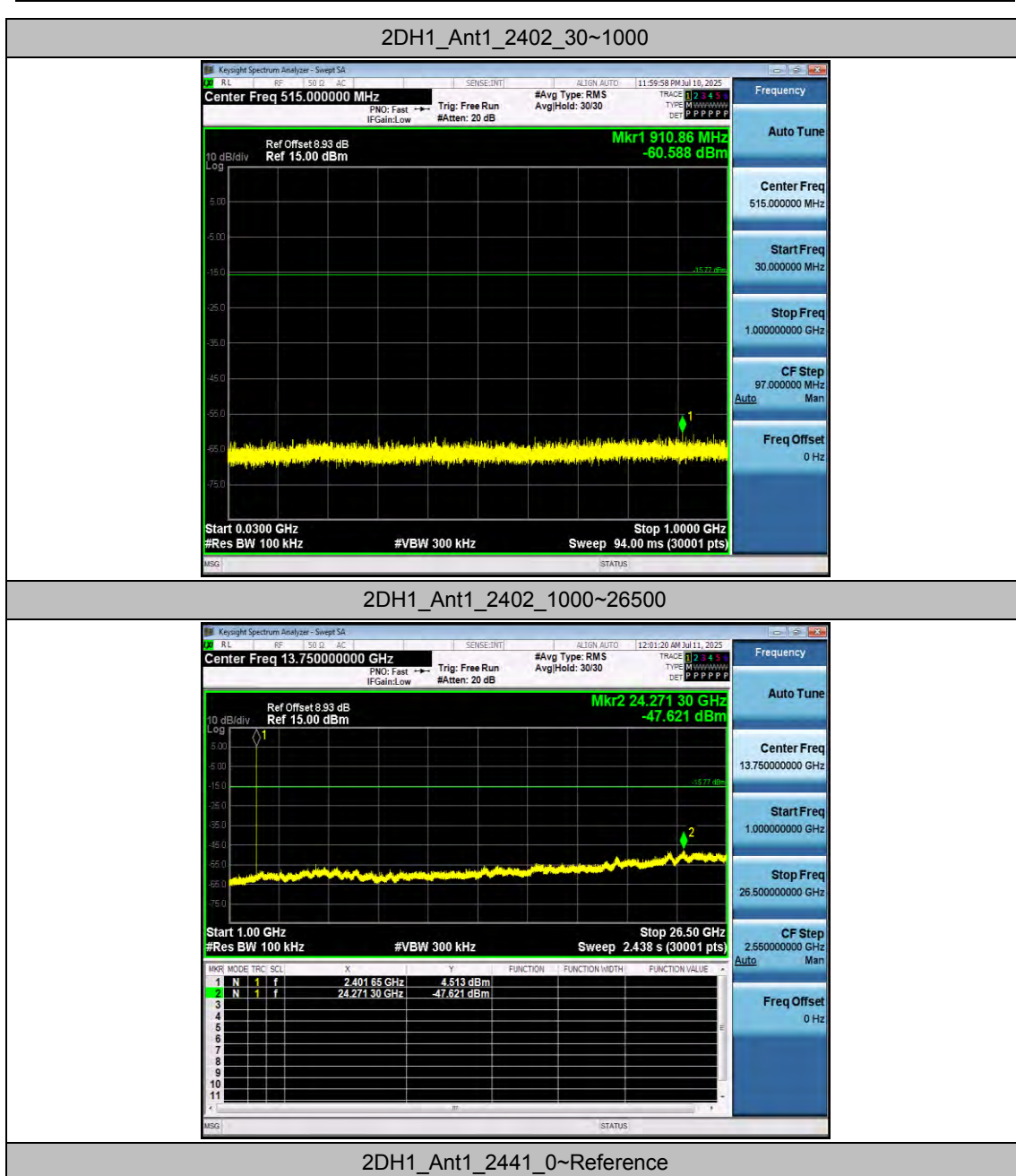


DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



2DH1_Ant1_2441_1000~26500



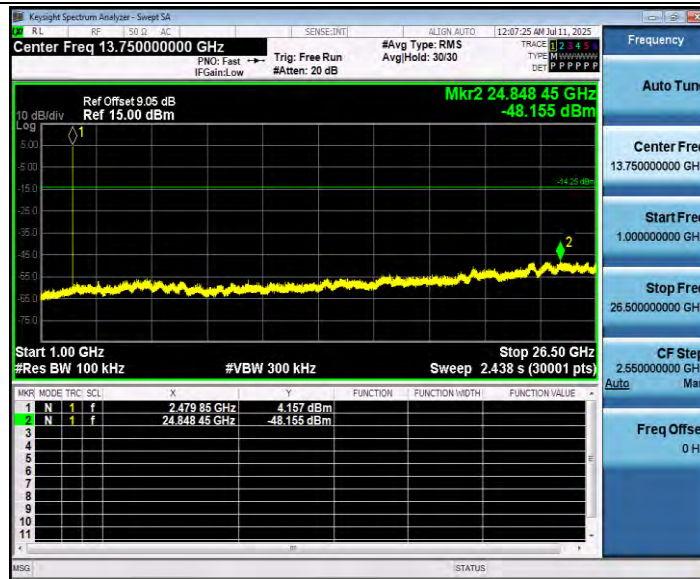
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



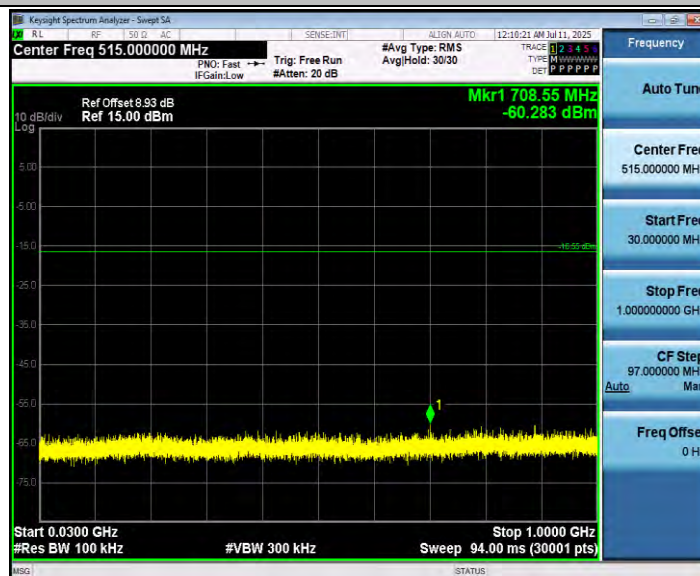
2DH1_Ant1_2480_1000~26500



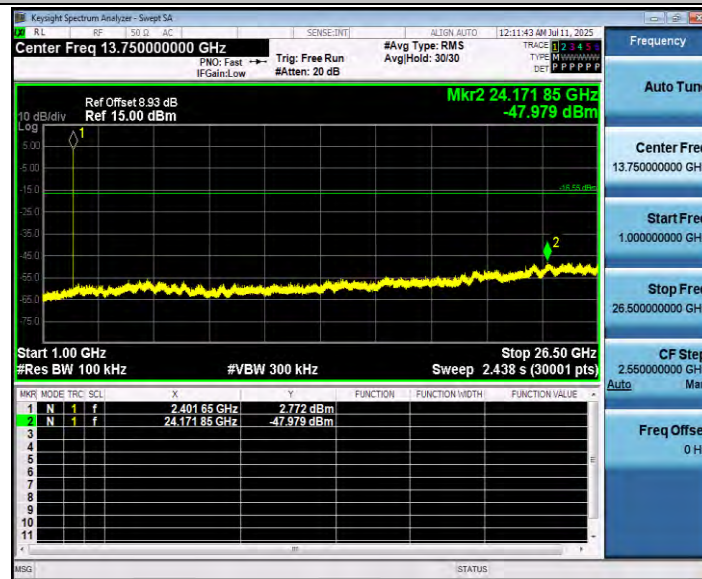
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



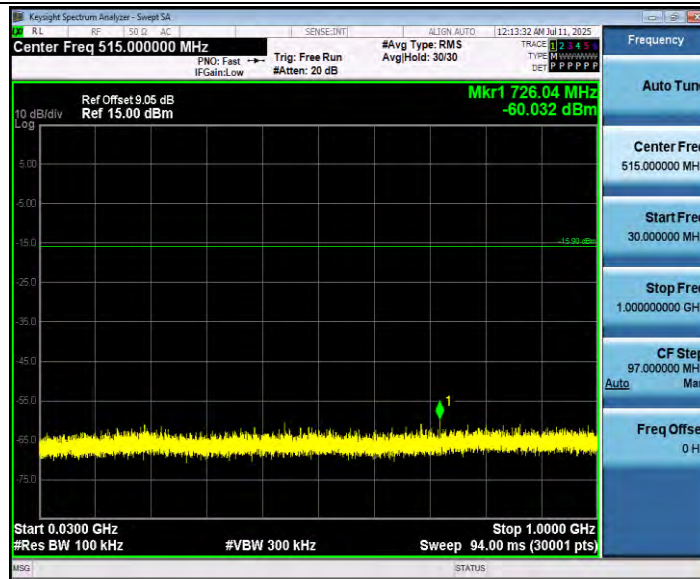
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

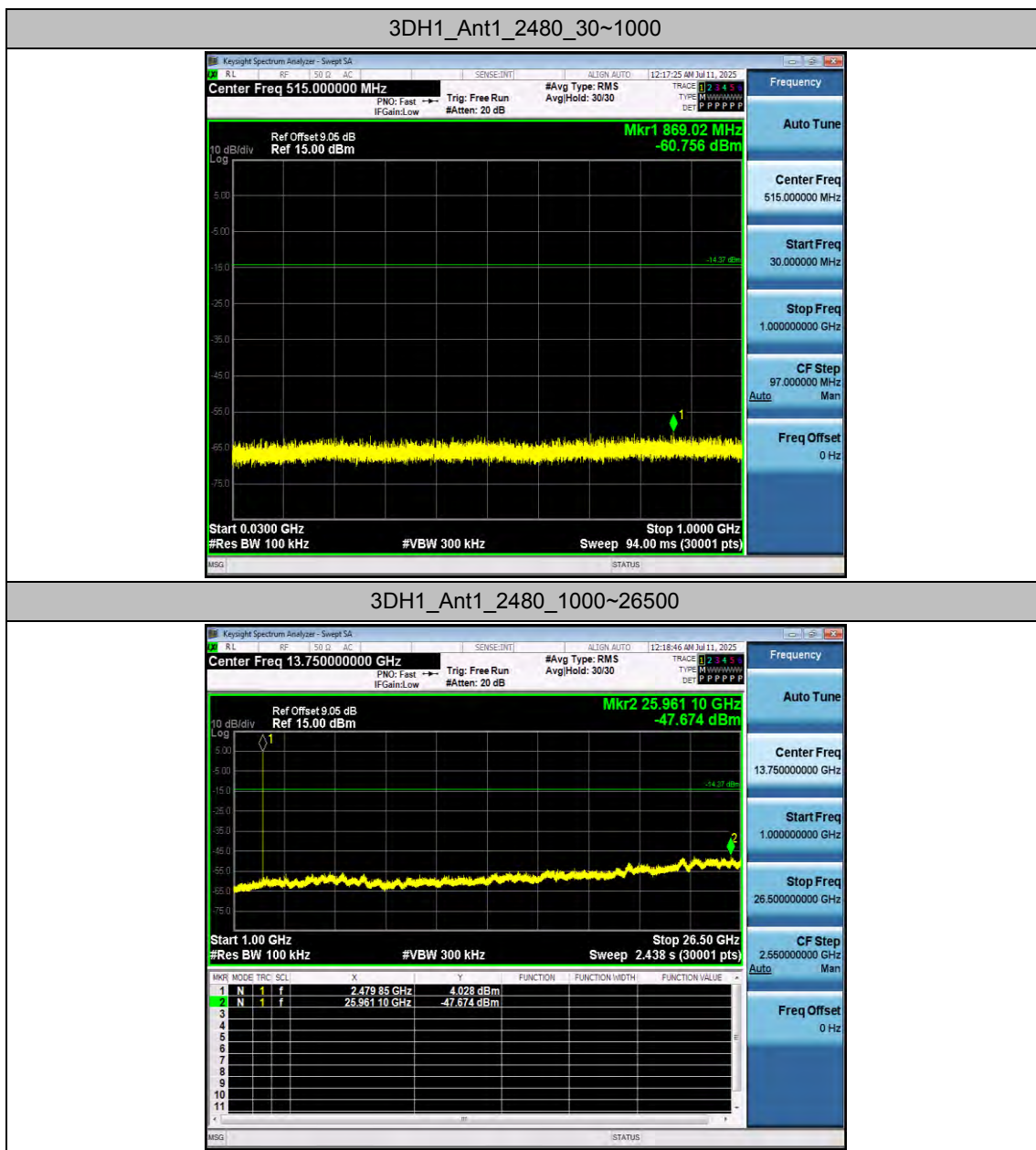


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

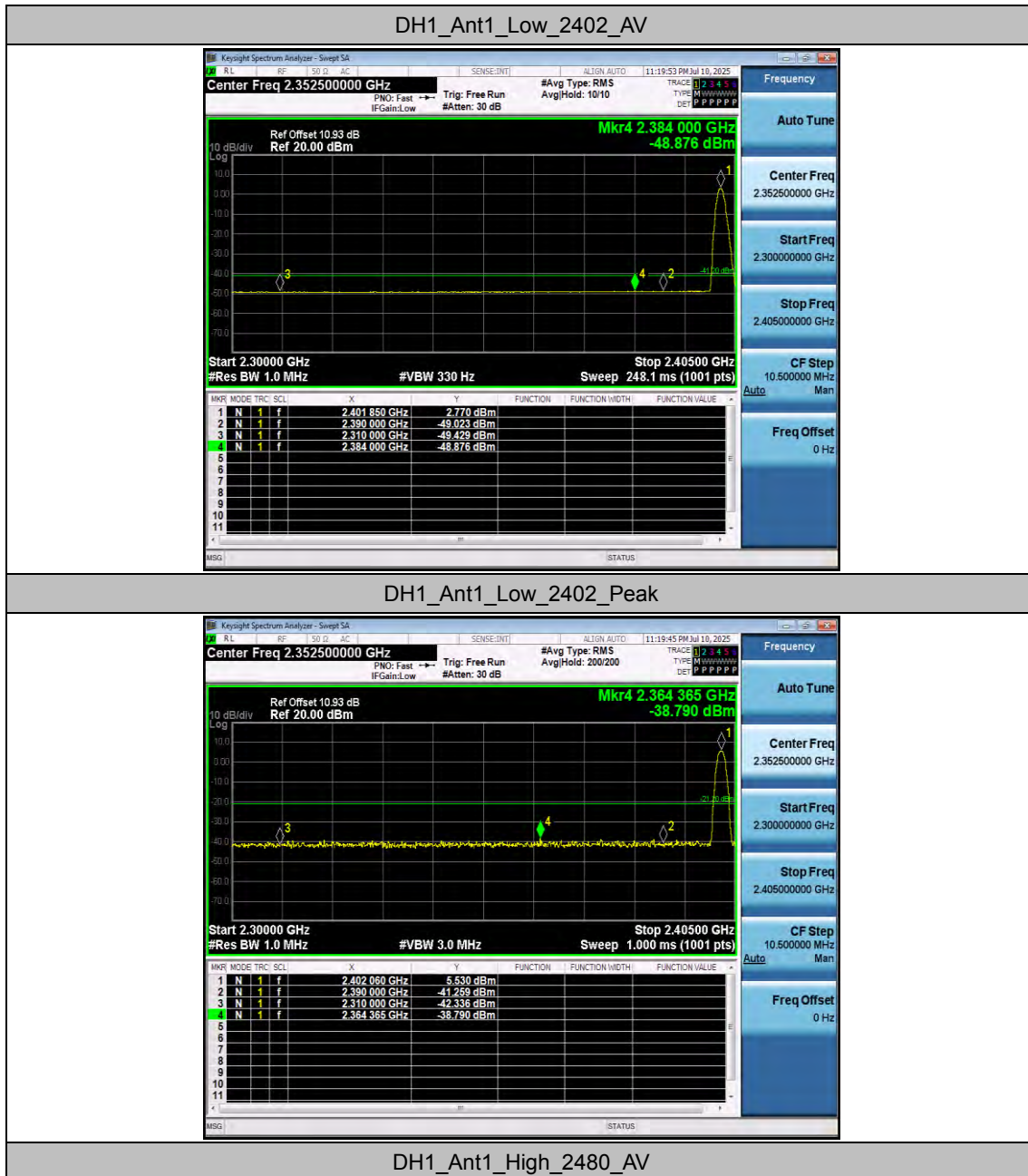
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.43	≤-41.20	45.77	≤54	PASS
				AV	2384.000	-48.88	≤-41.20	46.32	≤54	PASS
				AV	2390.000	-49.02	≤-41.20	46.18	≤54	PASS
				Peak	2310.000	-42.34	≤-21.20	52.86	≤74	PASS
				Peak	2364.365	-38.79	≤-21.20	56.41	≤74	PASS
				Peak	2390.000	-41.26	≤-21.20	53.94	≤74	PASS
		High	2480	AV	2483.500	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2483.520	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2500.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2483.500	-41.48	≤-21.20	53.72	≤74	PASS
				Peak	2484.320	-39.09	≤-21.20	56.11	≤74	PASS
				Peak	2500.000	-41.16	≤-21.20	54.04	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.46	≤-41.20	45.74	≤54	PASS
				AV	2383.685	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2390.000	-49.14	≤-41.20	46.06	≤54	PASS
				Peak	2310.000	-41.62	≤-21.20	53.58	≤74	PASS
				Peak	2388.200	-38.33	≤-21.20	56.87	≤74	PASS
				Peak	2390.000	-41.56	≤-21.20	53.64	≤74	PASS
		High	2480	AV	2483.500	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2483.520	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2500.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2483.500	-40.57	≤-21.20	54.63	≤74	PASS
				Peak	2489.920	-38.02	≤-21.20	57.18	≤74	PASS
				Peak	2500.000	-41.81	≤-21.20	53.39	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.34	≤-41.20	45.86	≤54	PASS
				AV	2387.780	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2390.000	-49.11	≤-41.20	46.09	≤54	PASS
				Peak	2310.000	-42.12	≤-21.20	53.08	≤74	PASS
				Peak	2349.350	-38.81	≤-21.20	56.39	≤74	PASS
				Peak	2390.000	-41.82	≤-21.20	53.38	≤74	PASS
		High	2480	AV	2483.500	-48.31	≤-41.20	46.89	≤54	PASS
				AV	2483.520	-48.31	≤-41.20	46.89	≤54	PASS
				AV	2500.000	-48.73	≤-41.20	46.47	≤54	PASS
				Peak	2483.500	-39.92	≤-21.20	55.28	≤74	PASS
				Peak	2489.600	-38.11	≤-21.20	57.09	≤74	PASS

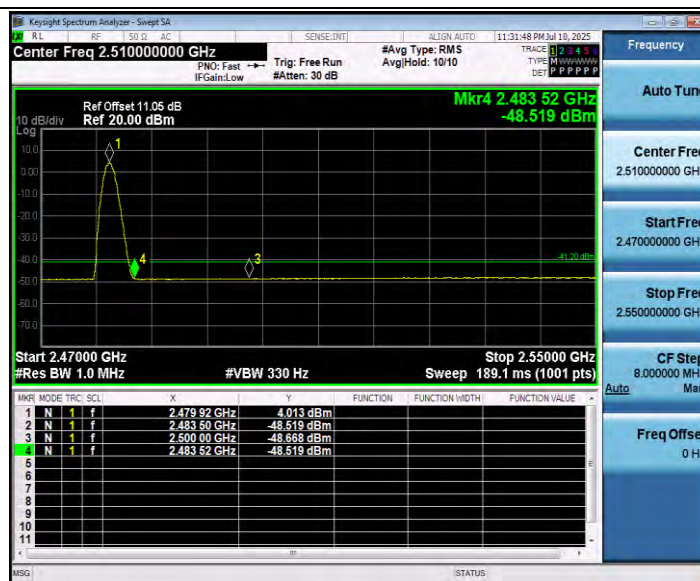
				Peak	2500.000	-39.82	≤ -21.20	55.38	≤ 74	PASS
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Note:

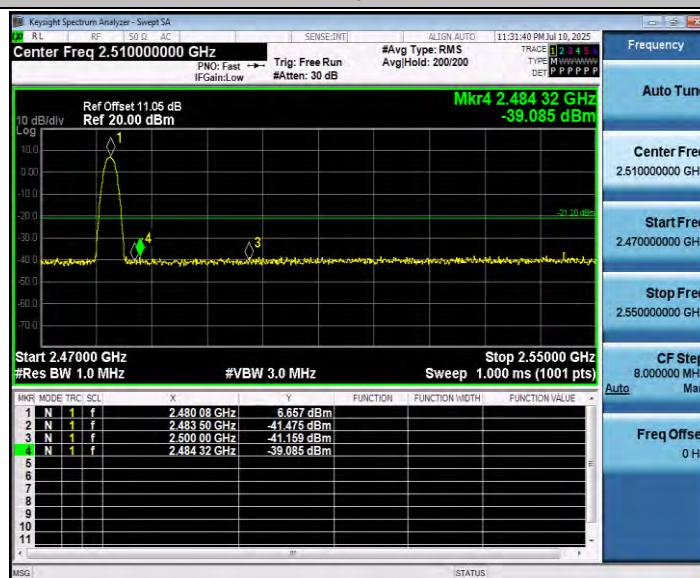
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

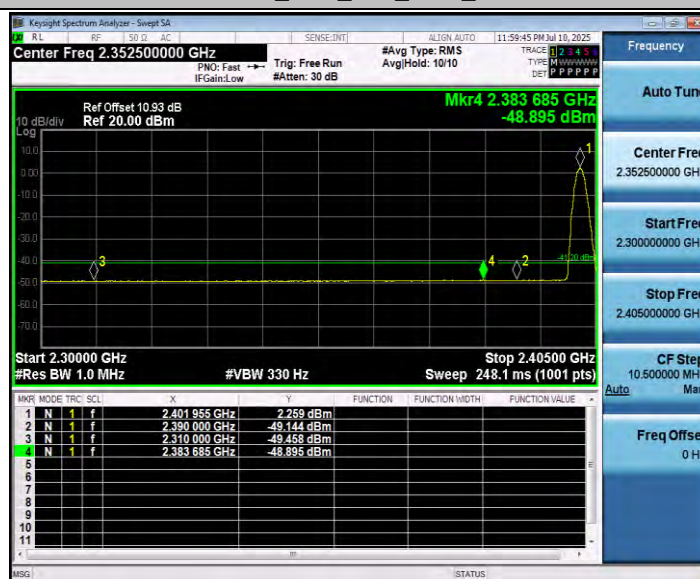




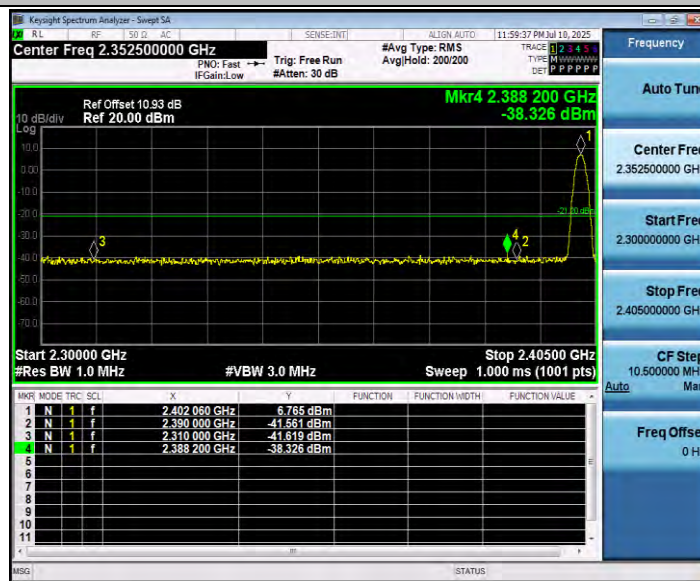
DH1_Ant1_High_2480_Peak



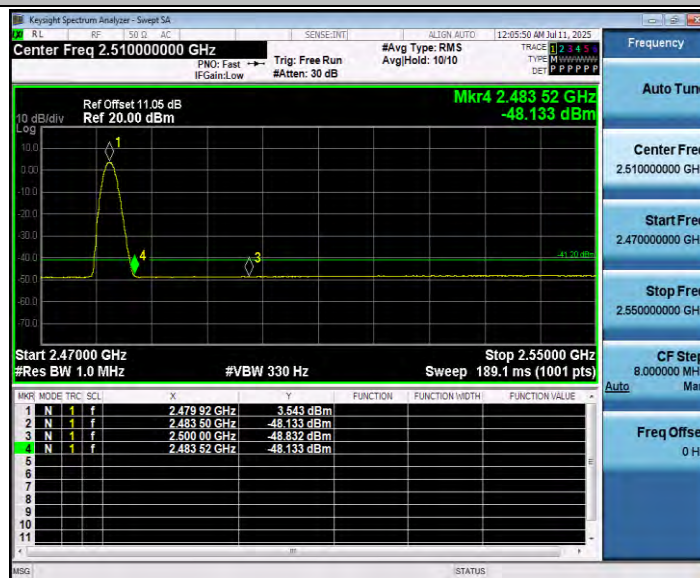
2DH1_Ant1_Low_2402_AV



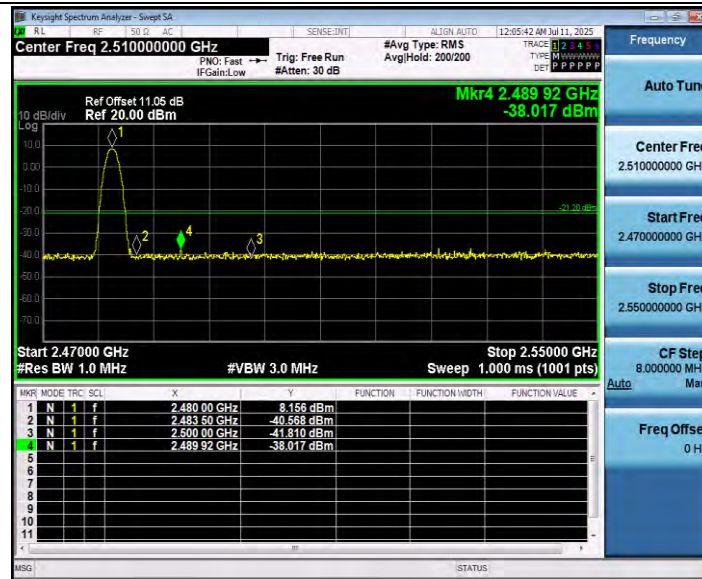
2DH1_Ant1_Low_2402_Peak



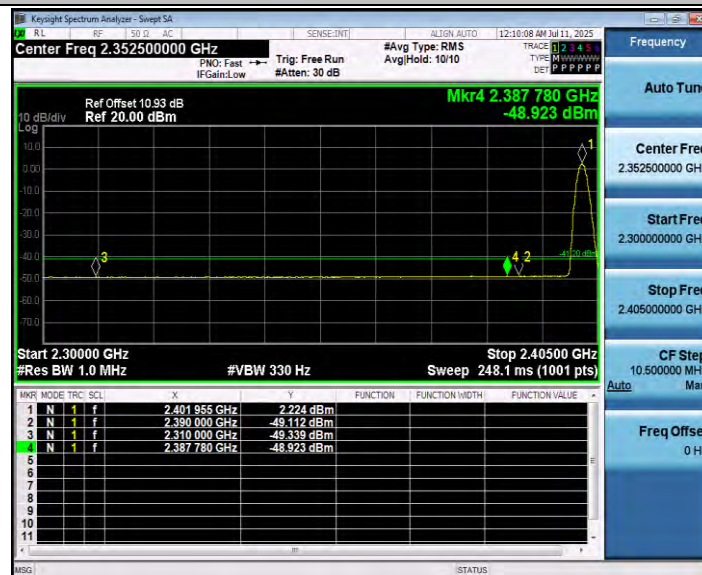
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

