

Case No. : <u>GTS20250926009-3-02</u>
Ambient Condition: <u>23</u> °C, <u>48</u> %RH
According Standard: ■Part15C
Test Date: <u>2025.09.14- 2025.11.12</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	Ant1	2402	0.831	2401.562	2402.393	---	---
		2441	0.795	2440.601	2441.396	---	---
		2480	0.846	2479.553	2480.399	---	---
2DH1	Ant1	2402	1.248	2401.370	2402.618	---	---
		2441	1.257	2440.370	2441.627	---	---
		2480	1.239	2479.373	2480.612	---	---
3DH1	Ant1	2402	1.251	2401.373	2402.624	---	---
		2441	1.218	2440.403	2441.621	---	---
		2480	1.245	2479.373	2480.618	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



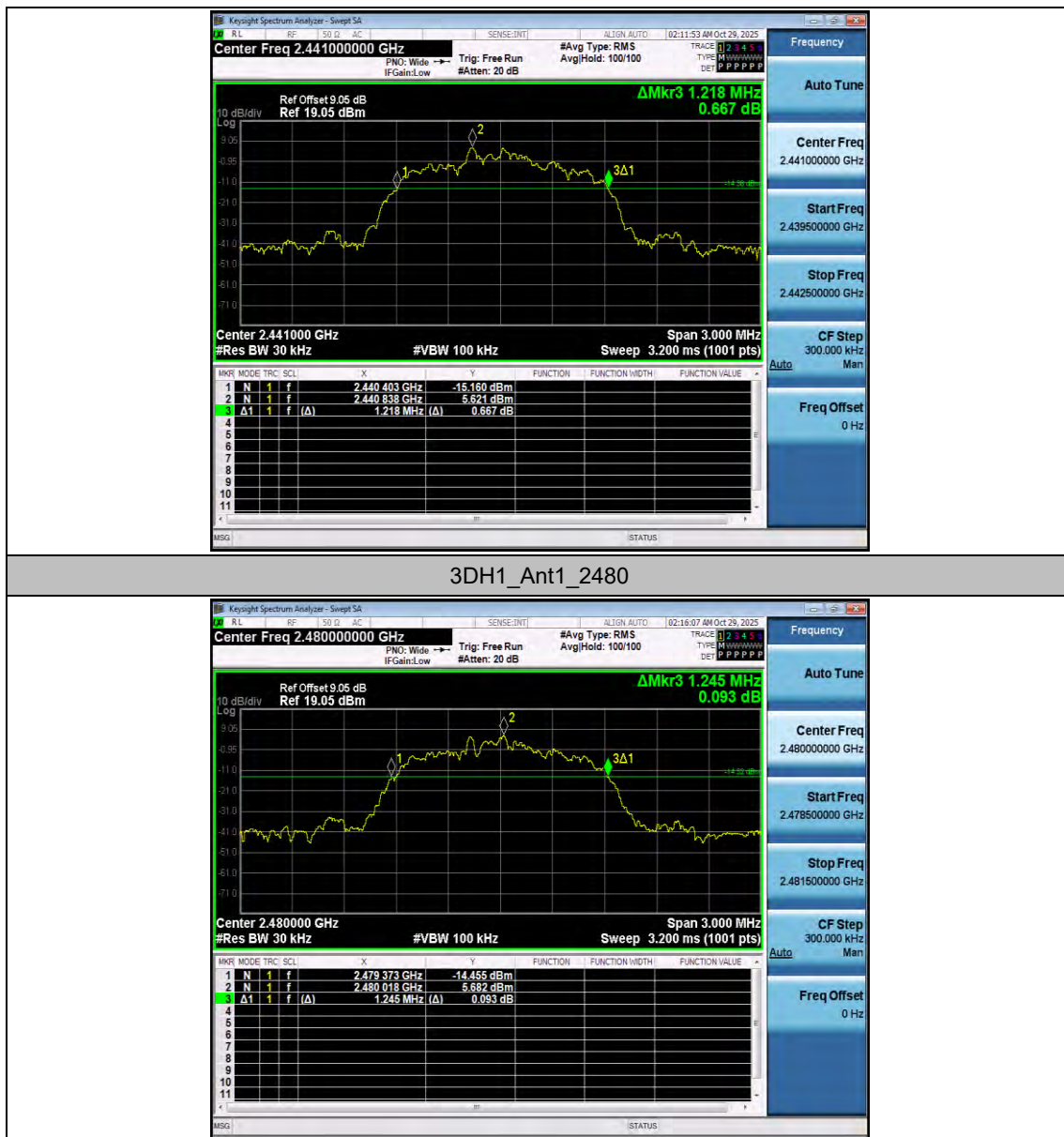
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



AppendixA.2: Occupied Channel Bandwidth

Test Result

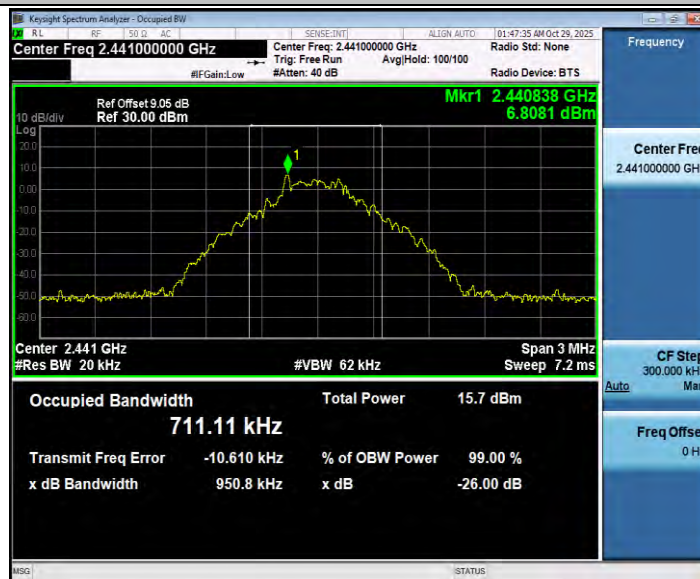
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.72042	2401.6284	2402.3488	---	---
		2441	0.71111	2440.6338	2441.3449	---	---
		2480	0.71580	2479.6329	2480.3487	---	---
2DH1	Ant1	2402	1.1414	2401.4273	2402.5687	---	---
		2441	1.1382	2440.4290	2441.5672	---	---
		2480	1.1410	2479.4268	2480.5678	---	---
3DH1	Ant1	2402	1.1475	2401.4353	2402.5828	---	---
		2441	1.1336	2440.4406	2441.5742	---	---
		2480	1.1347	2479.4415	2480.5762	---	---

Test Graphs

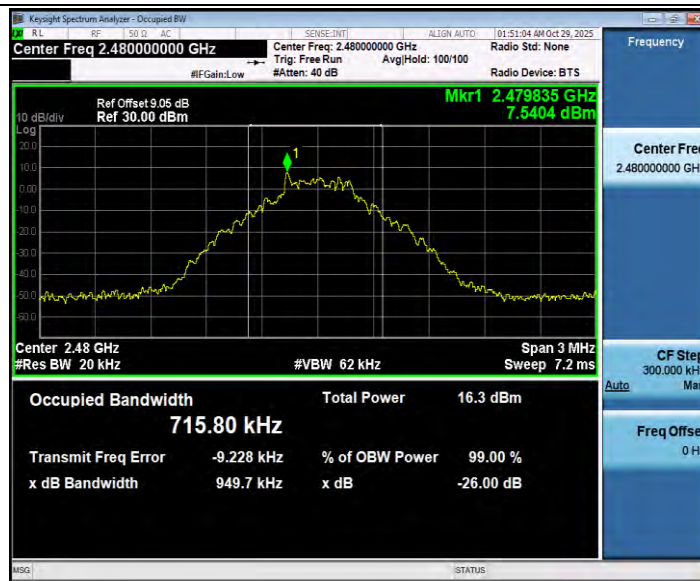
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



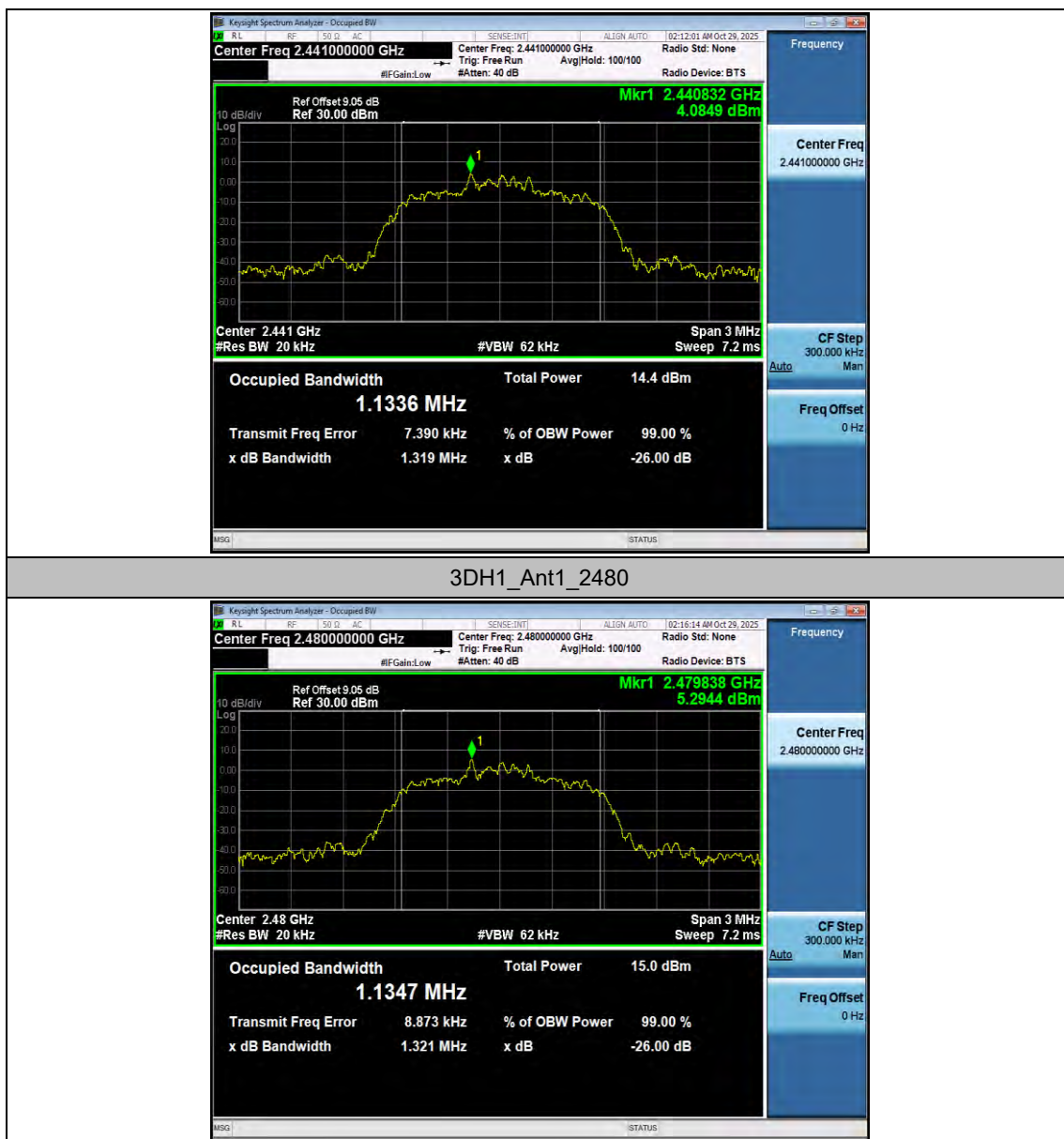
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



AppendixA.3: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	10.40	≤ 20.97	PASS
		2441	10.82	≤ 20.97	PASS
		2480	11.49	≤ 20.97	PASS
2DH1	Ant1	2402	10.15	≤ 20.97	PASS
		2441	10.21	≤ 20.97	PASS
		2480	11.29	≤ 20.97	PASS
3DH1	Ant1	2402	10.59	≤ 20.97	PASS
		2441	10.31	≤ 20.97	PASS
		2480	11.34	≤ 20.97	PASS

AppendixA.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.98	≥ 0.846	PASS
		Hop_2441	1.166	≥ 0.846	PASS
		Hop_2480	0.998	≥ 0.846	PASS
2DH1	Ant1	Hop_2402	1	≥ 0.838	PASS
		Hop_2441	0.992	≥ 0.838	PASS
		Hop_2480	1.006	≥ 0.838	PASS
3DH1	Ant1	Hop_2402	1.014	≥ 0.834	PASS
		Hop_2441	1.018	≥ 0.834	PASS
		Hop_2480	1.002	≥ 0.834	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

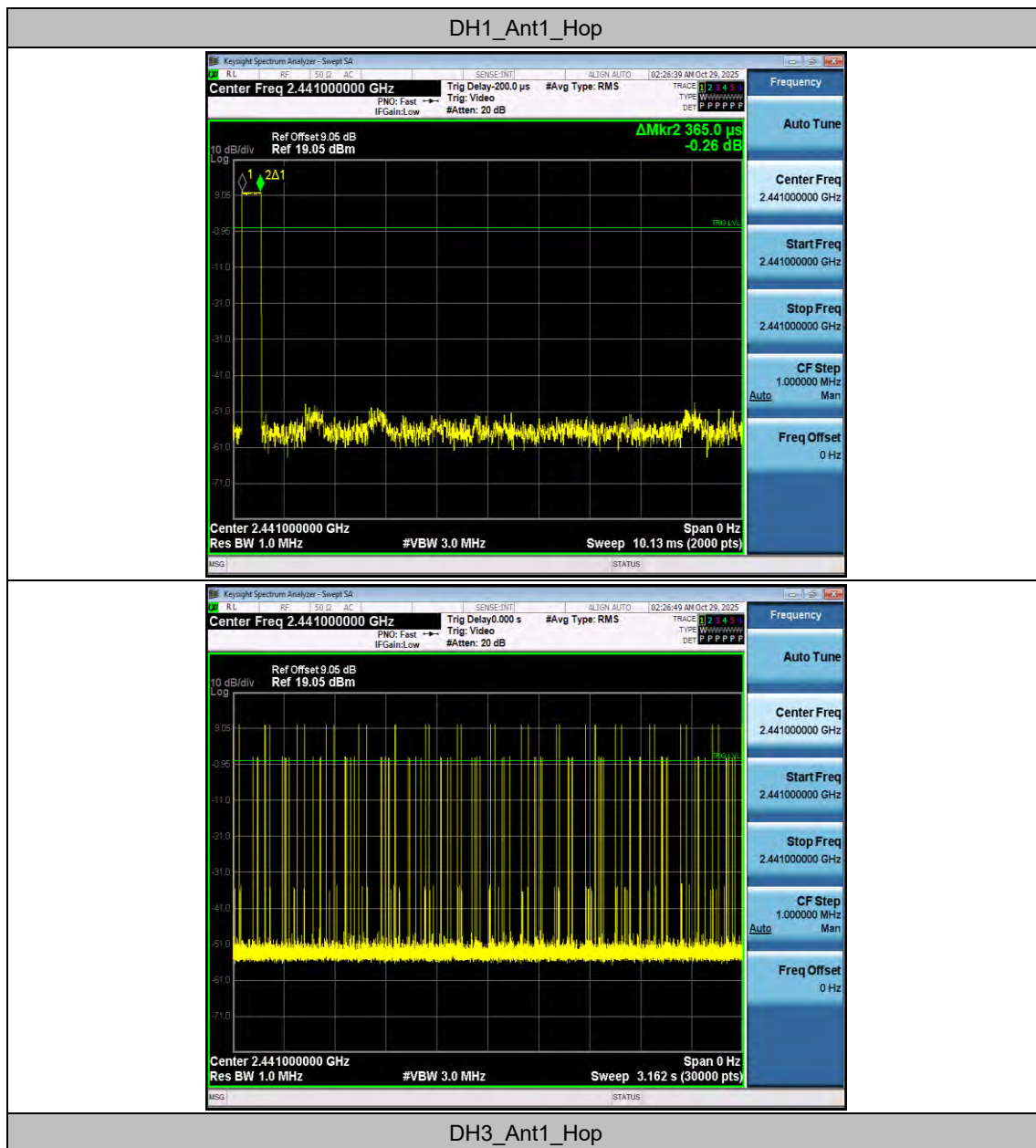


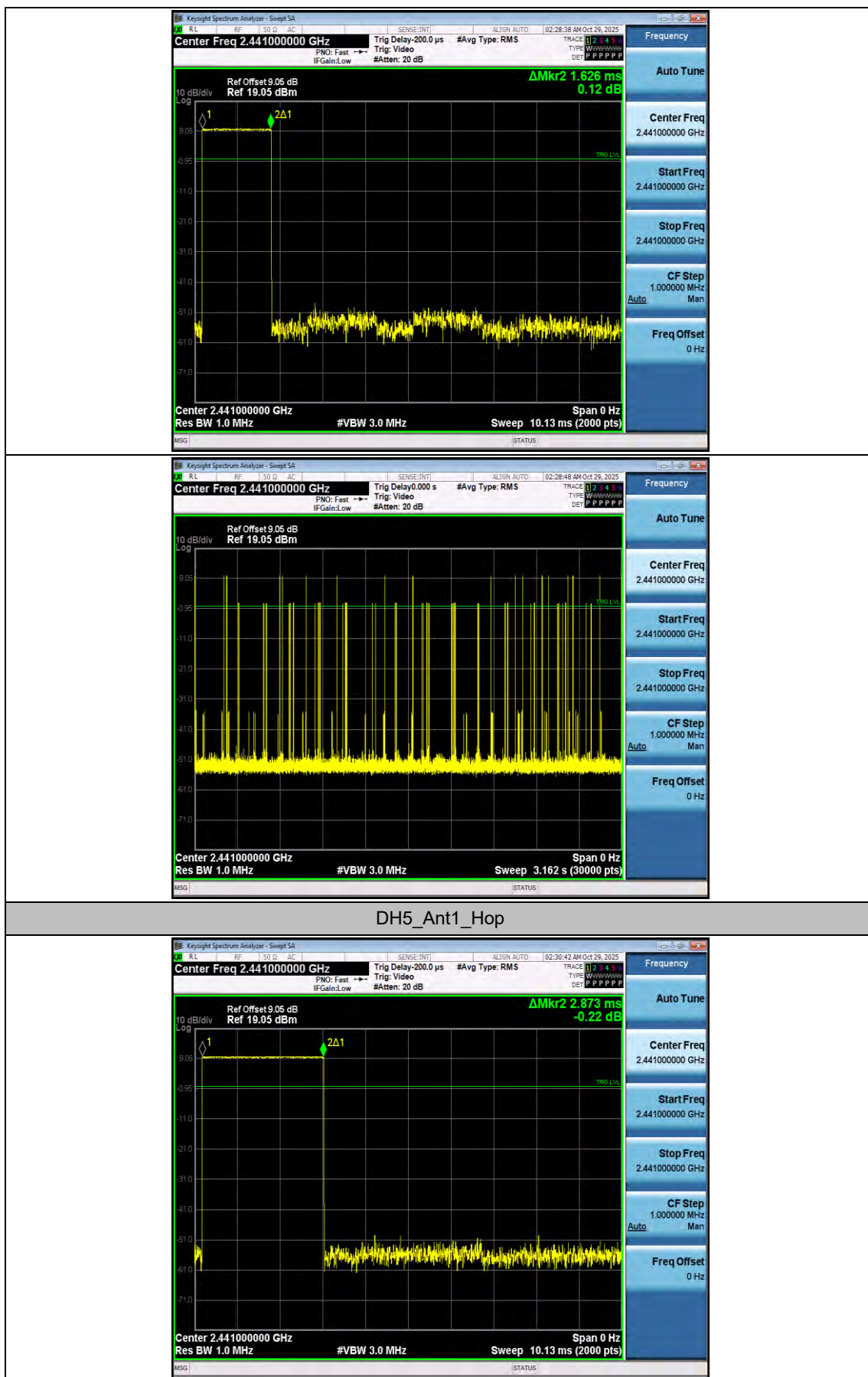
AppendixA.5: Time of occupancy

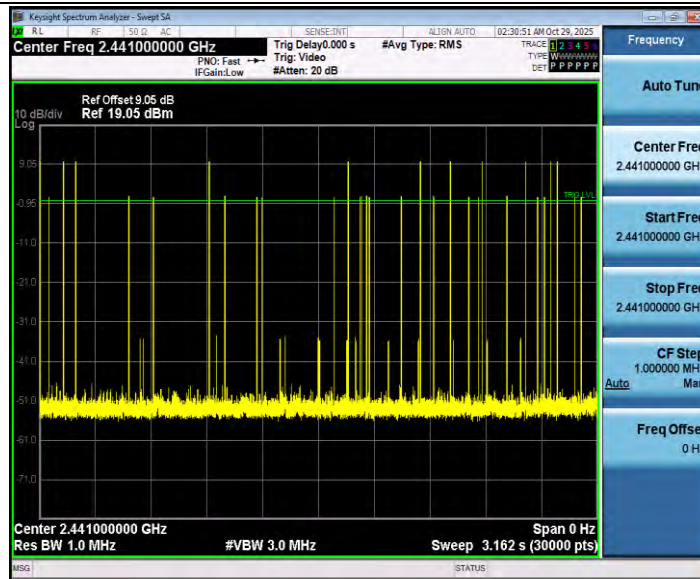
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.365	330	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.626	180	0.293	≤0.4	PASS
DH5	Ant1	Hop	2.873	110	0.316	≤0.4	PASS
2DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.626	170	0.276	≤0.4	PASS
2DH5	Ant1	Hop	2.873	130	0.373	≤0.4	PASS
3DH1	Ant1	Hop	0.380	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.878	110	0.317	≤0.4	PASS

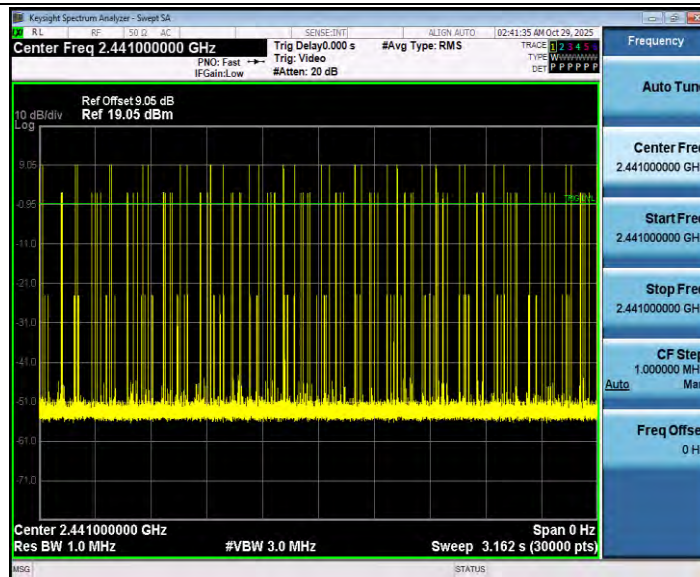
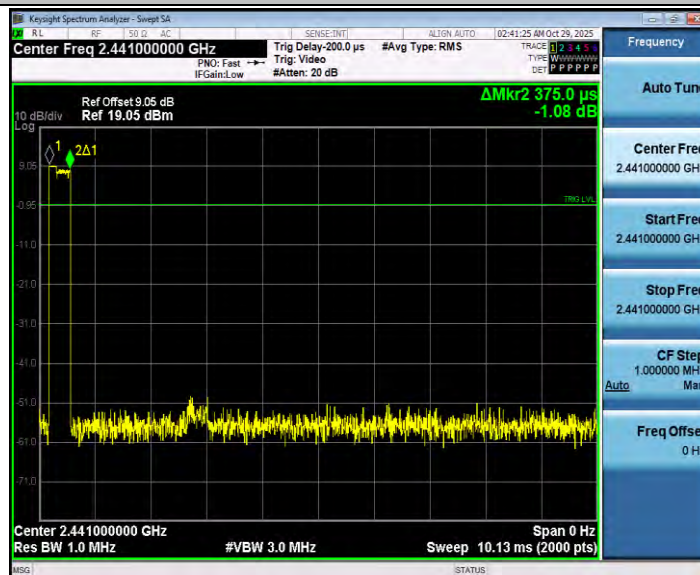
Test Graphs



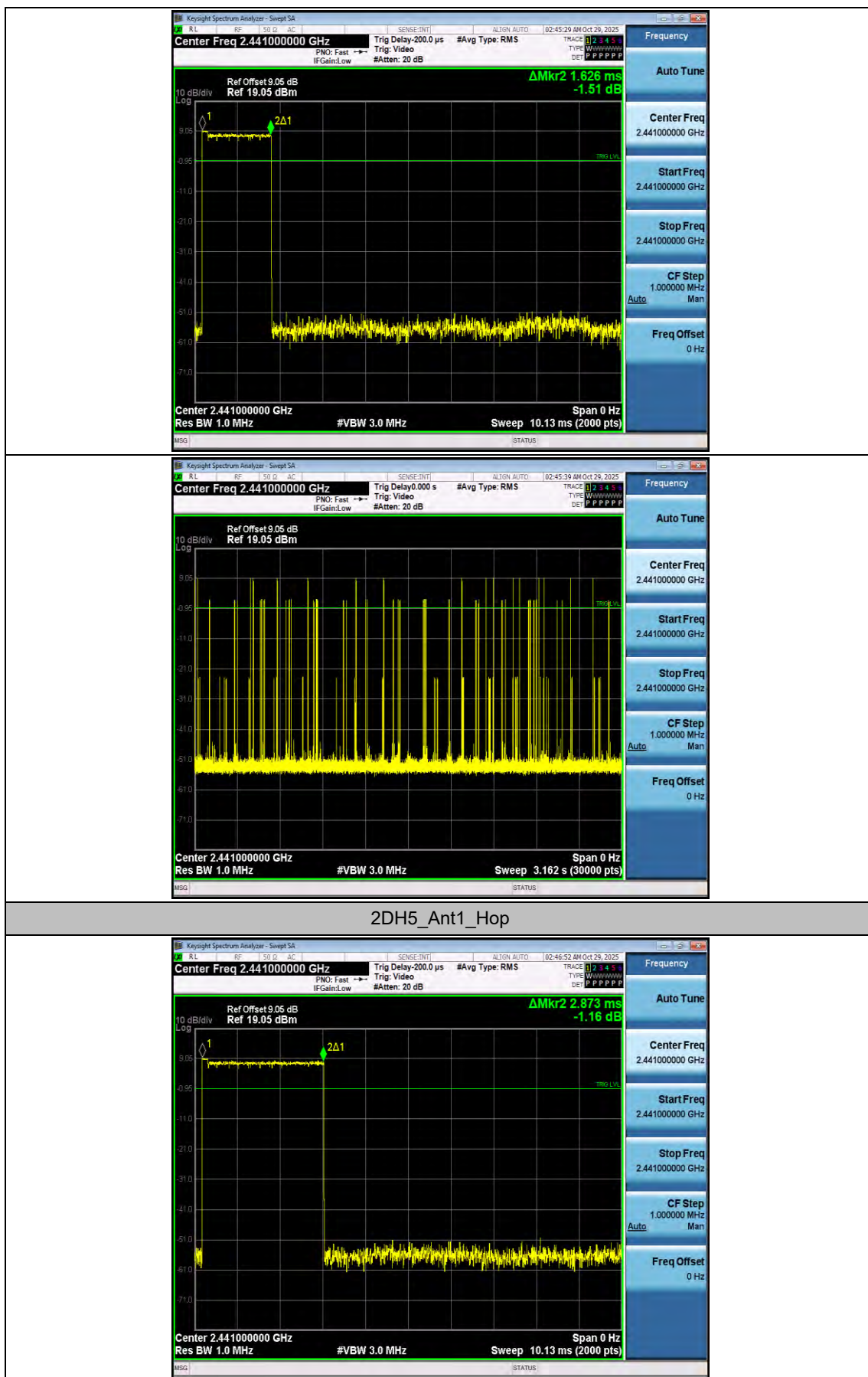


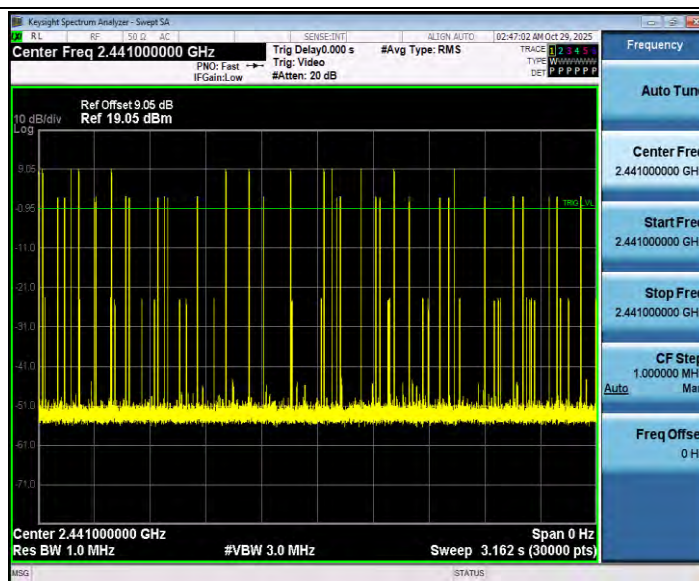


2DH1_Ant1_Hop

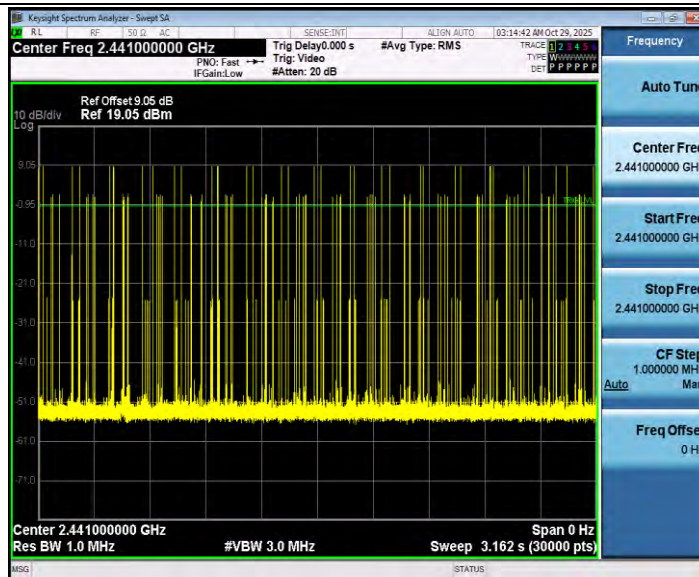
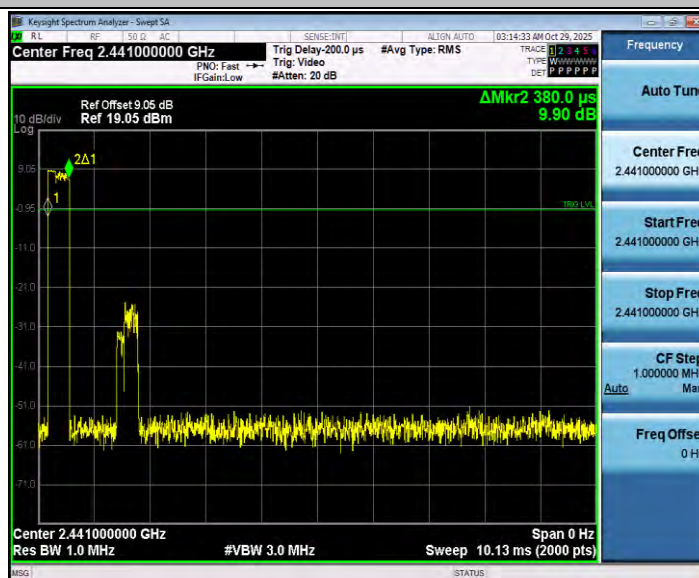


2DH3_Ant1_Hop

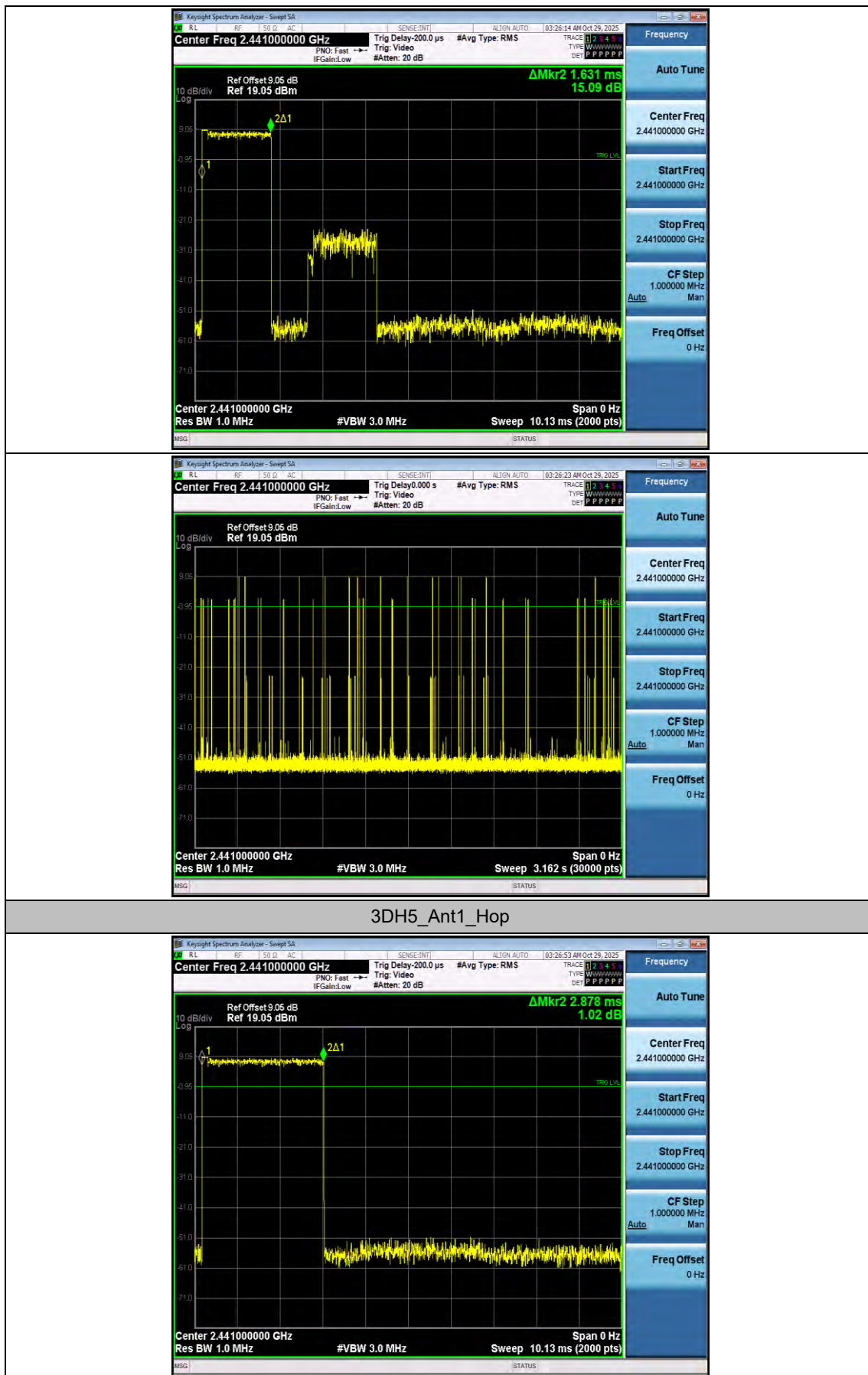




3DH1_Ant1_Hop



3DH3_Ant1_Hop



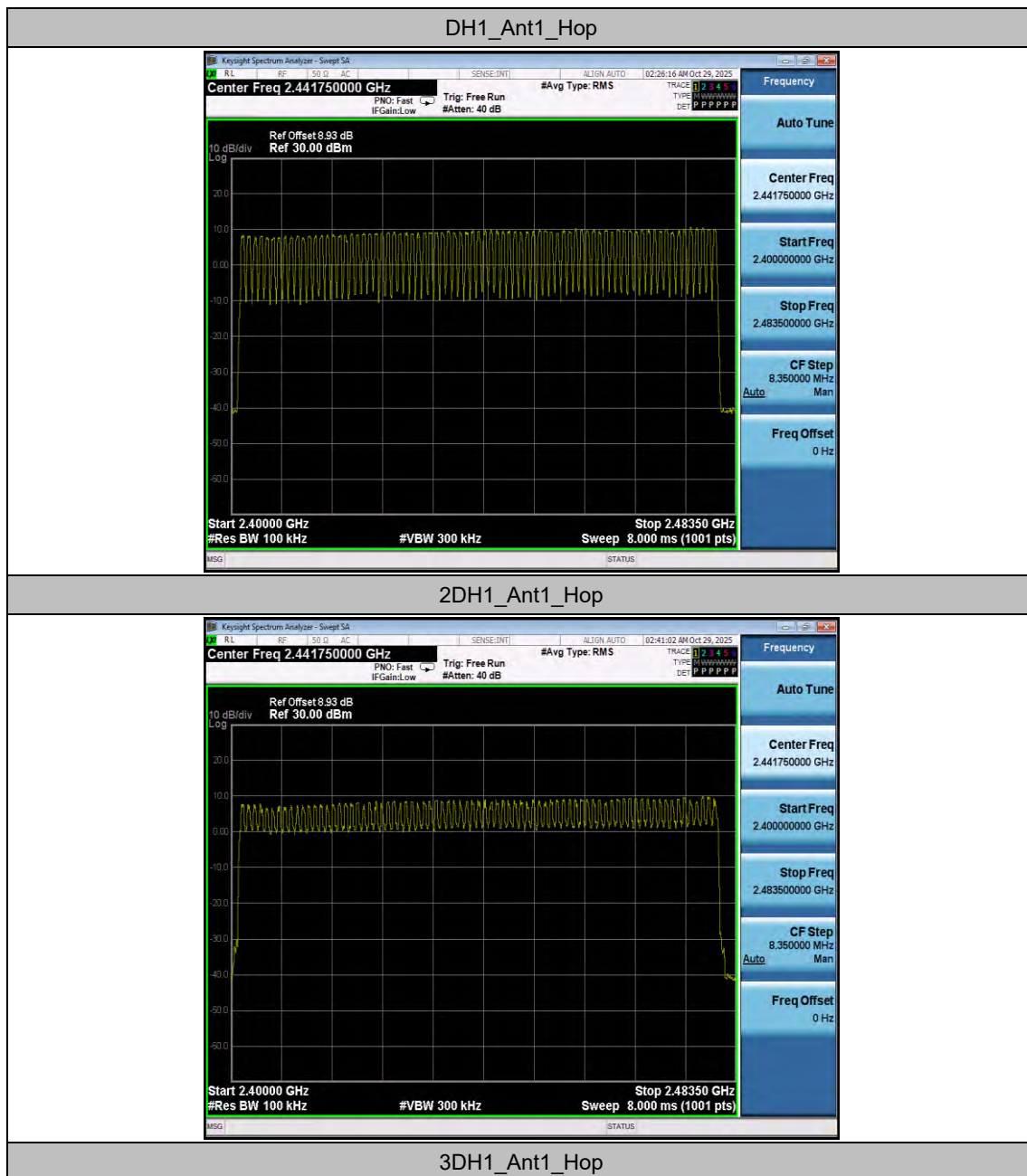


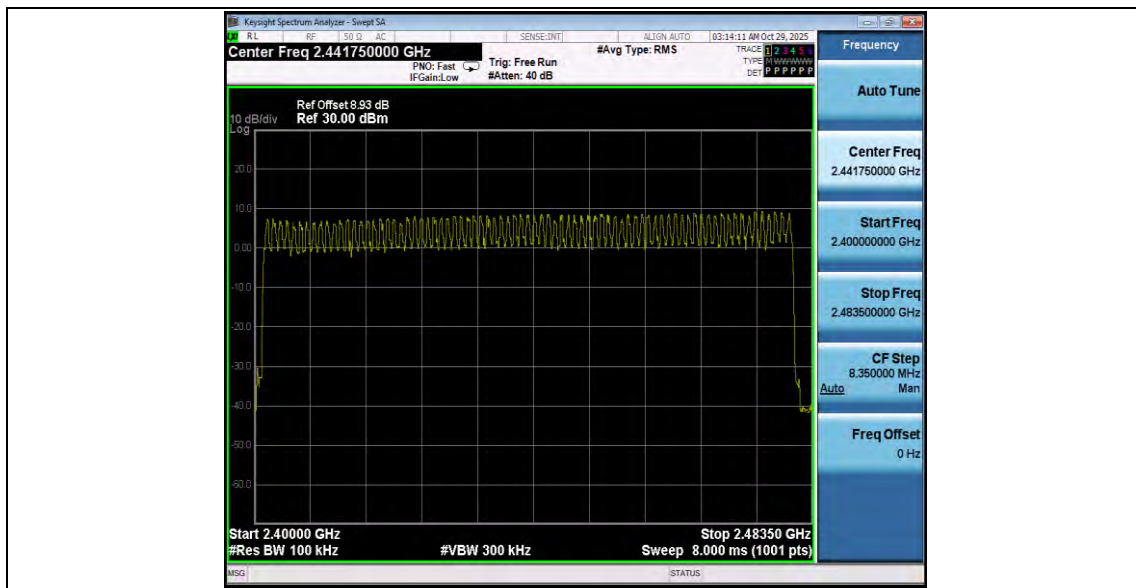
AppendixA.6: Number of hopping channels

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





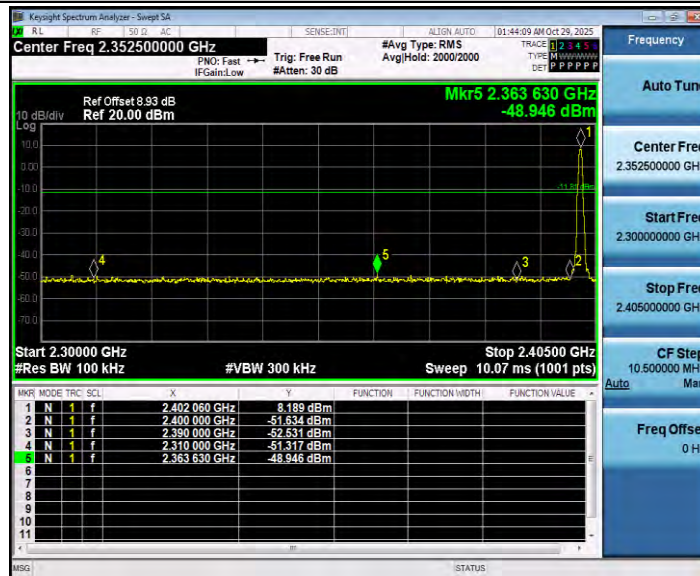
Appendix A.7: Band edge measurements

Test Result

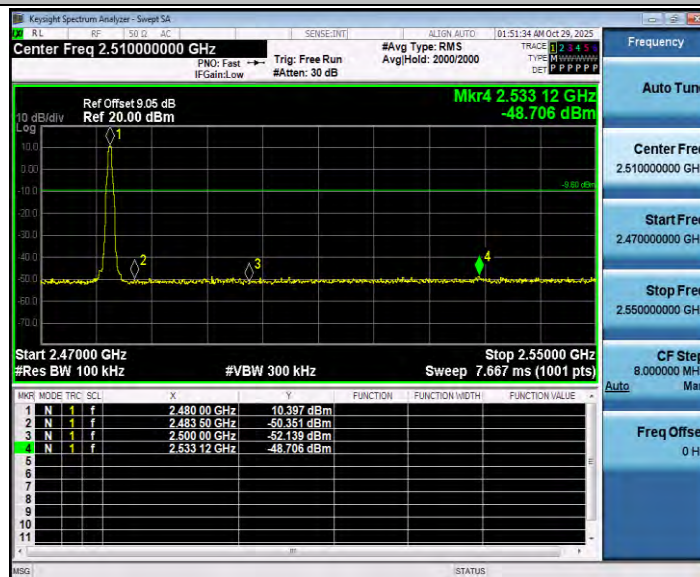
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.19	-48.95	≤ -11.81	PASS
		High	2480	10.40	-48.71	≤ -9.6	PASS
		Low	Hop_2402	7.79	-49.33	≤ -12.21	PASS
		High	Hop_2480	10.20	-48.61	≤ -9.8	PASS
2DH1	Ant1	Low	2402	7.84	-47.84	≤ -12.16	PASS
		High	2480	10.10	-47.72	≤ -9.9	PASS
		Low	Hop_2402	7.45	-49.16	≤ -12.55	PASS
		High	Hop_2480	9.62	-48.47	≤ -10.38	PASS
3DH1	Ant1	Low	2402	8.29	-44.62	≤ -11.71	PASS
		High	2480	9.81	-48.73	≤ -10.19	PASS
		Low	Hop_2402	7.55	-49.59	≤ -12.45	PASS
		High	Hop_2480	8.76	-48.25	≤ -11.24	PASS

Test Graphs

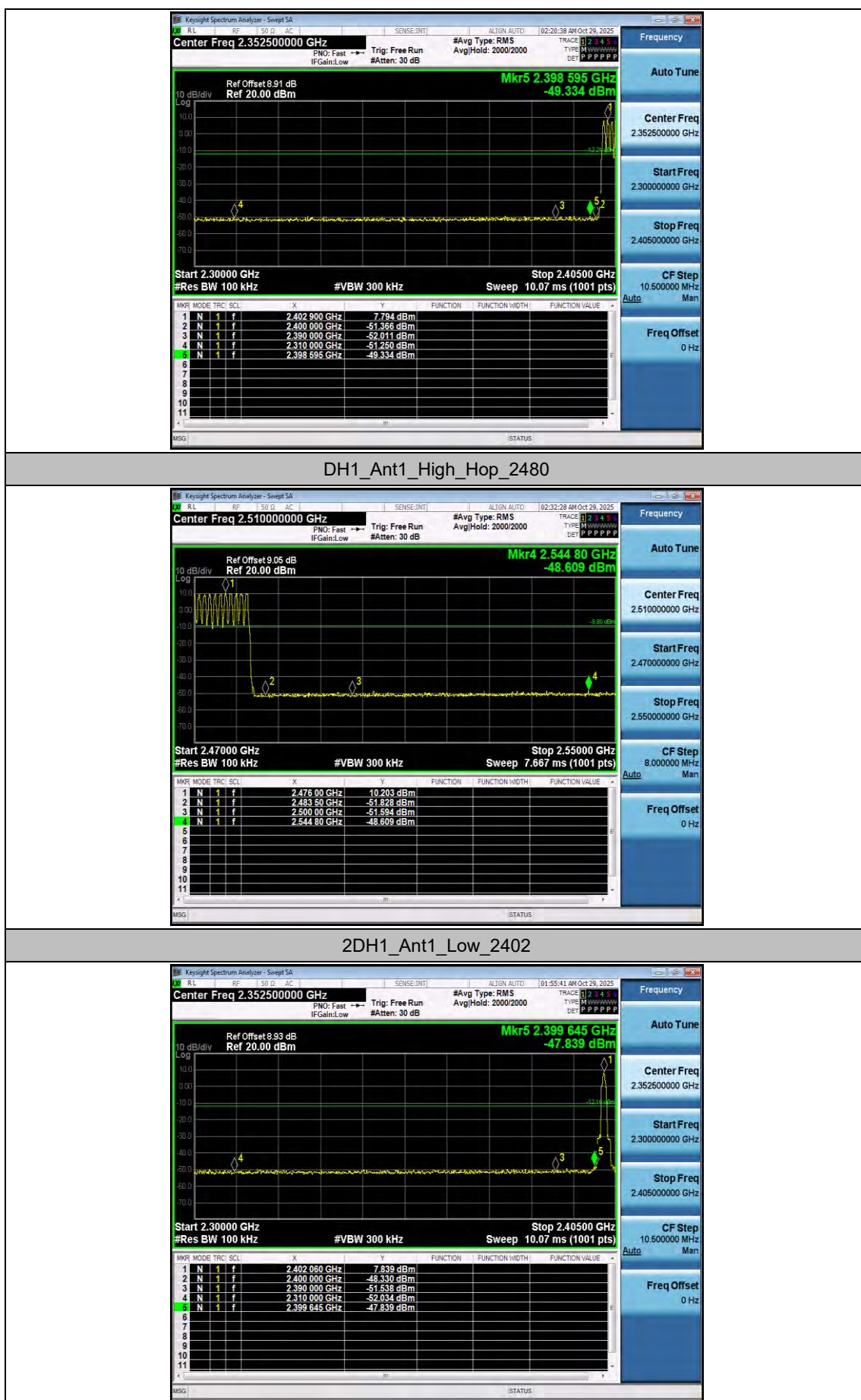
DH1_Ant1_Low_2402



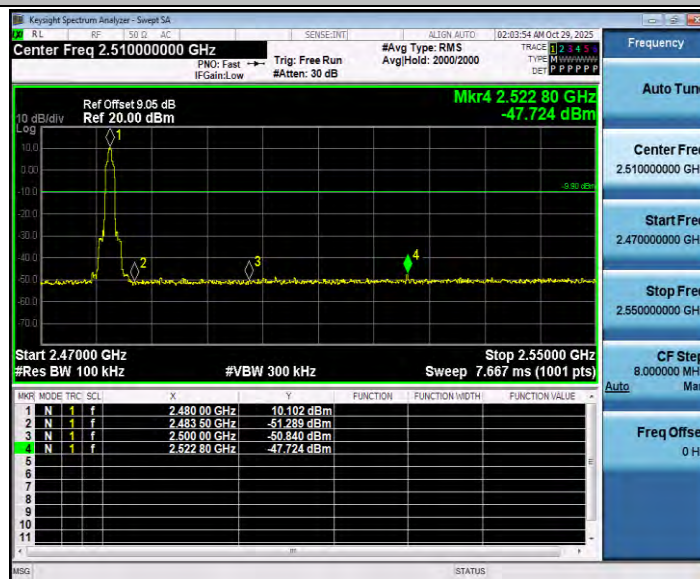
DH1_Ant1_High_2480



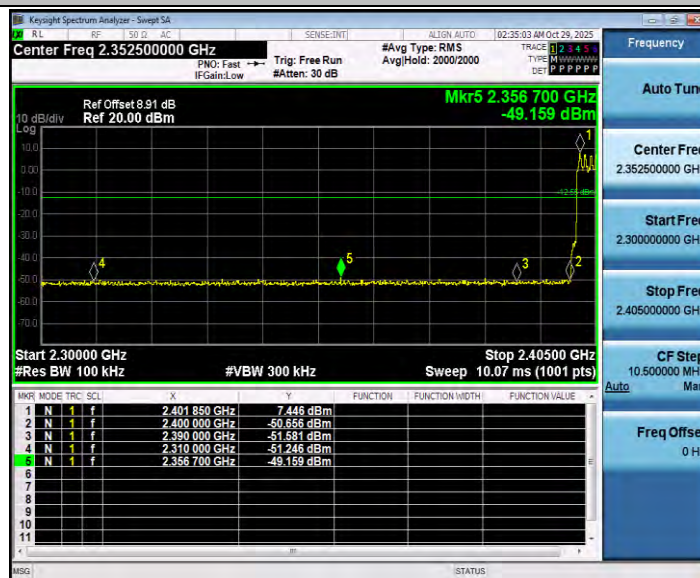
DH1_Ant1_Low_Hop_2402



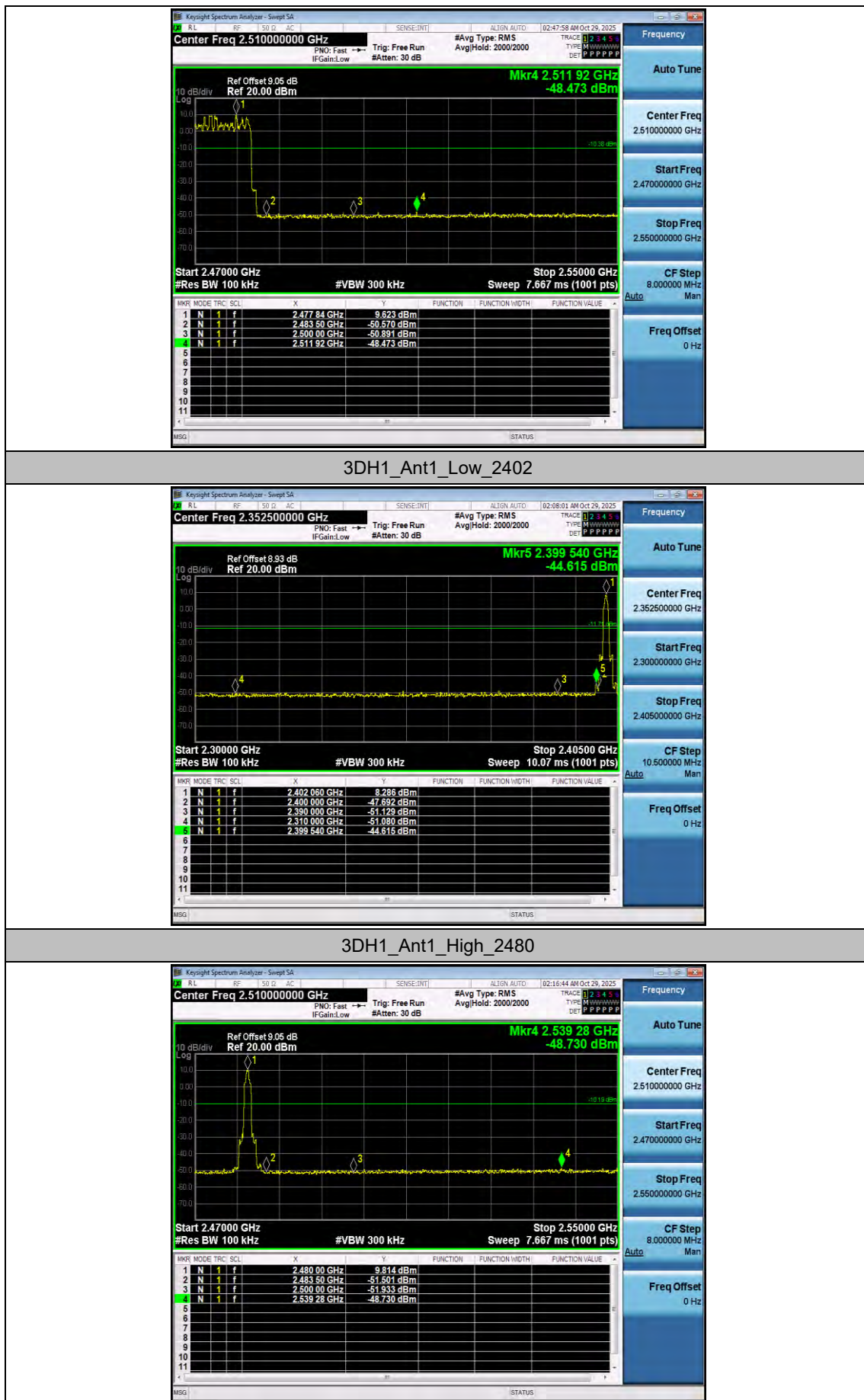
2DH1_Ant1_High_2480



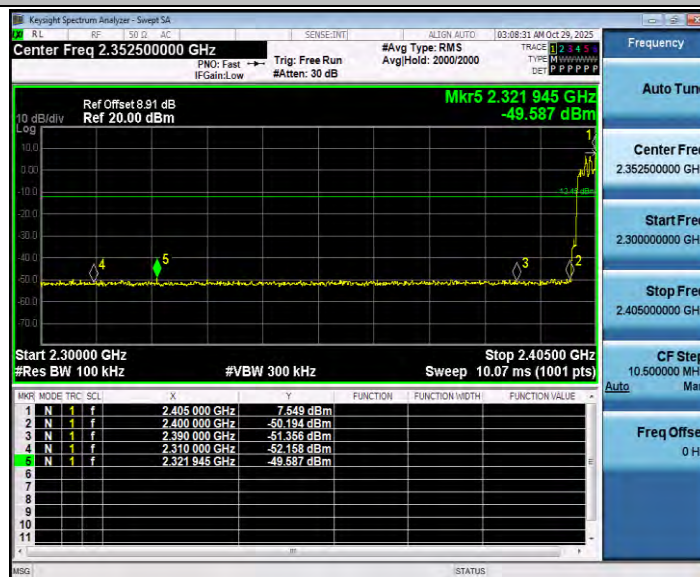
2DH1_Ant1_Low_Hop_2402



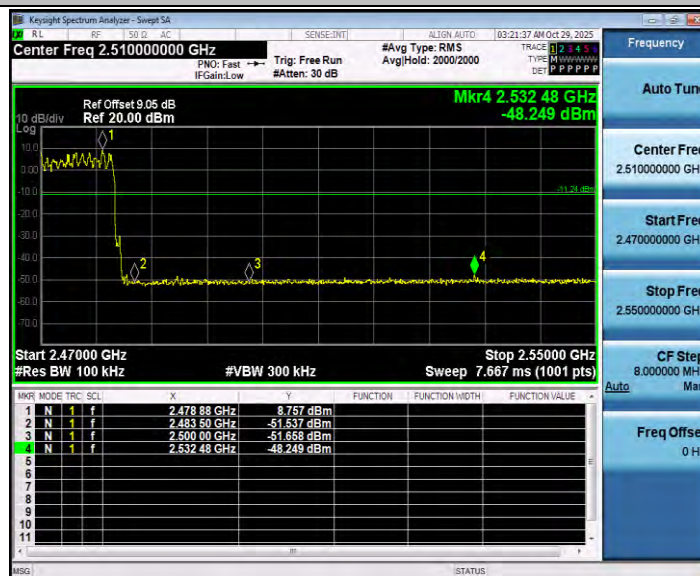
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

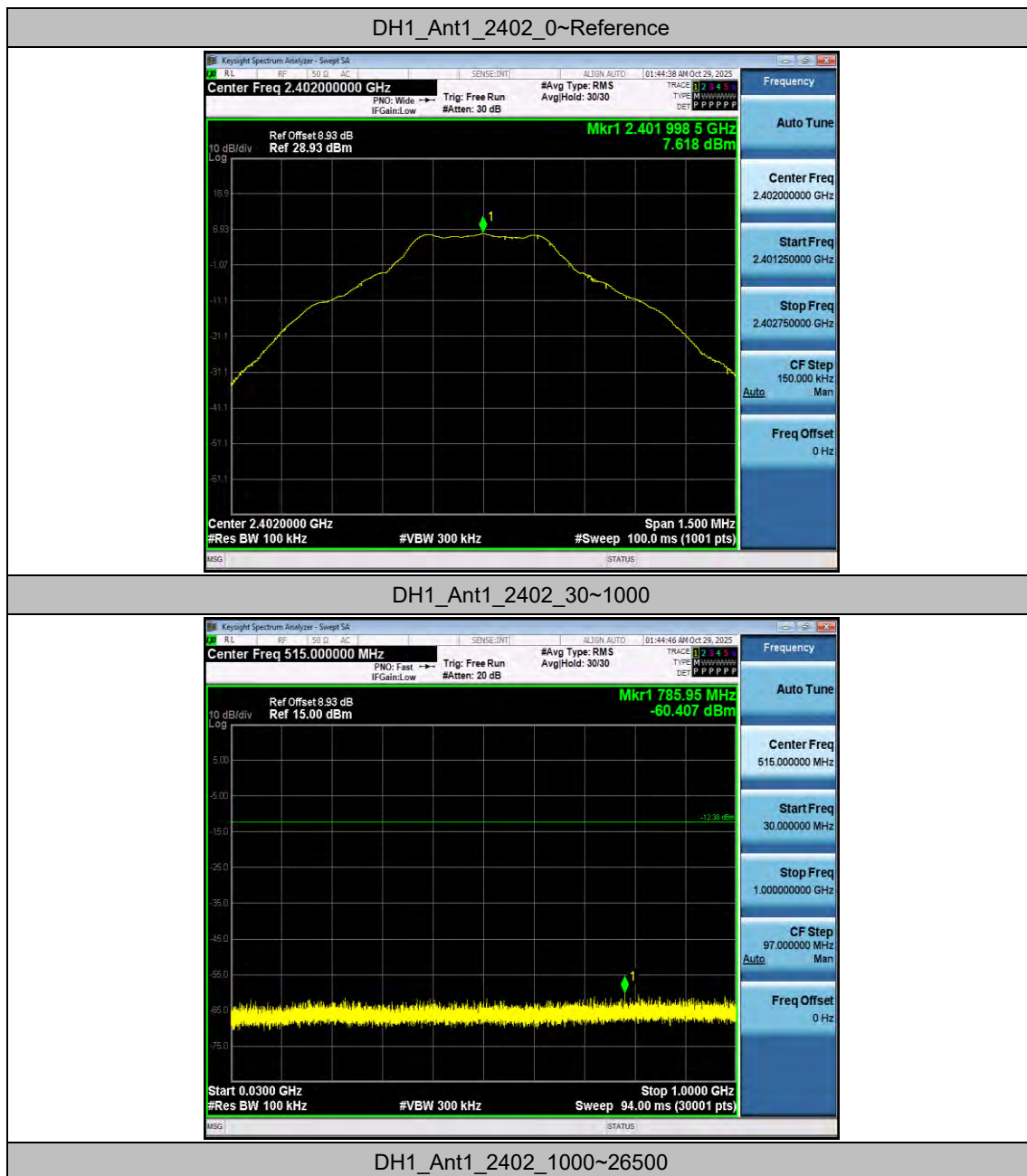


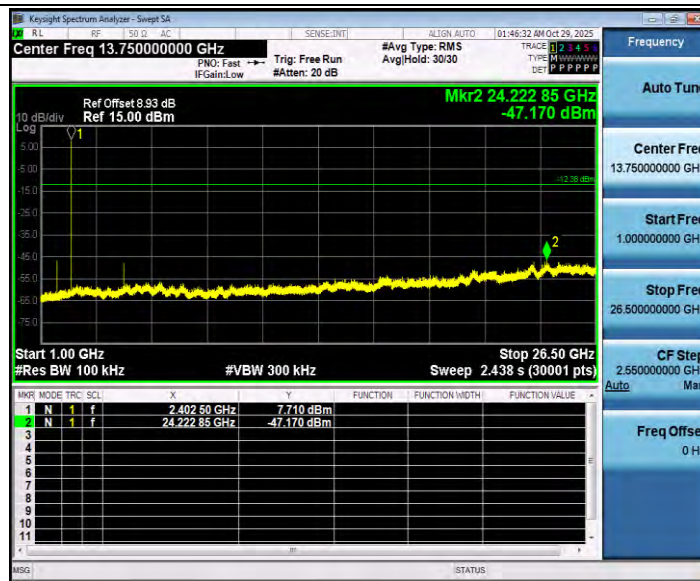
Appendix A.8: Conducted Spurious Emission

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	-60.41	≤ -12.38	PASS
			1000~26500	7.62	-47.17	≤ -12.38	PASS
		2441	Reference	9.19	9.19	---	PASS
			30~1000	9.19	-60.26	≤ -10.81	PASS
			1000~26500	9.19	-46.96	≤ -10.81	PASS
		2480	Reference	9.90	9.90	---	PASS
			30~1000	9.90	-60.14	≤ -10.1	PASS
			1000~26500	9.90	-46.31	≤ -10.1	PASS
2DH1	Ant1	2402	Reference	7.61	7.61	---	PASS
			30~1000	7.61	-60.43	≤ -12.39	PASS
			1000~26500	7.61	-47.79	≤ -12.39	PASS
		2441	Reference	8.87	8.87	---	PASS
			30~1000	8.87	-60.52	≤ -11.13	PASS
			1000~26500	8.87	-47.38	≤ -11.13	PASS
		2480	Reference	9.93	9.93	---	PASS
			30~1000	9.93	-60.23	≤ -10.07	PASS
			1000~26500	9.93	-46.69	≤ -10.07	PASS
3DH1	Ant1	2402	Reference	8.01	8.01	---	PASS
			30~1000	8.01	-60.72	≤ -11.99	PASS
			1000~26500	8.01	-47.41	≤ -11.99	PASS
		2441	Reference	8.99	8.99	---	PASS
			30~1000	8.99	-59.94	≤ -11.01	PASS
			1000~26500	8.99	-37.58	≤ -11.01	PASS
		2480	Reference	9.62	9.62	---	PASS
			30~1000	9.62	-60.56	≤ -10.38	PASS
			1000~26500	9.62	-45.51	≤ -10.38	PASS

Test Graphs

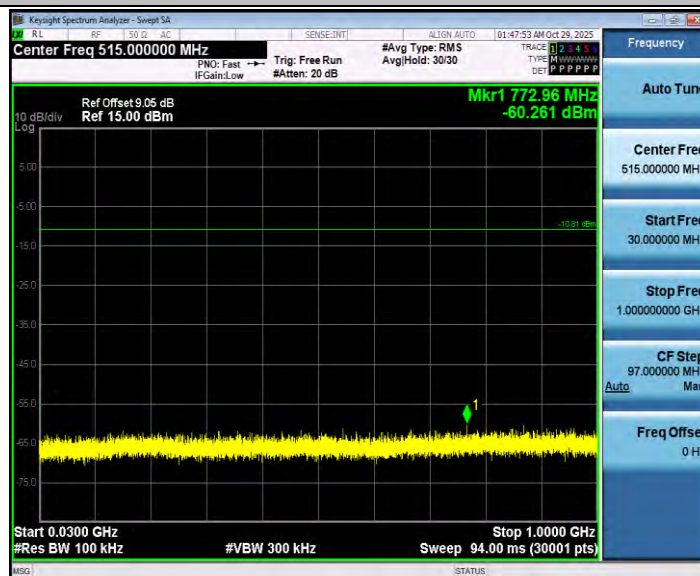




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



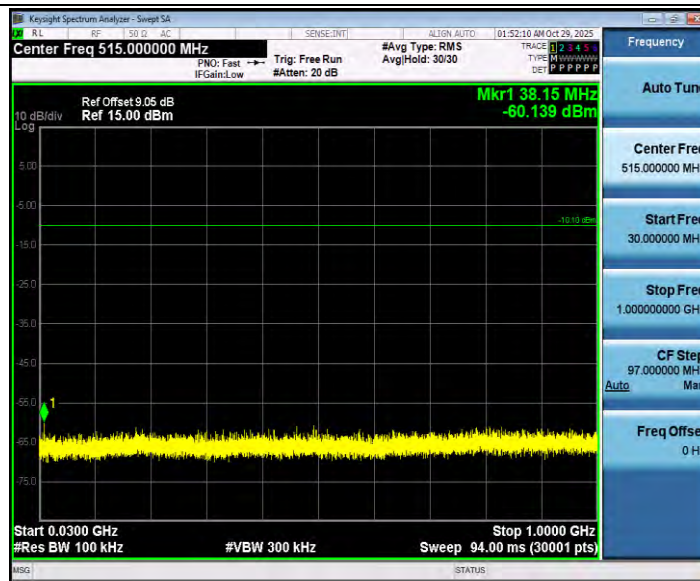
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



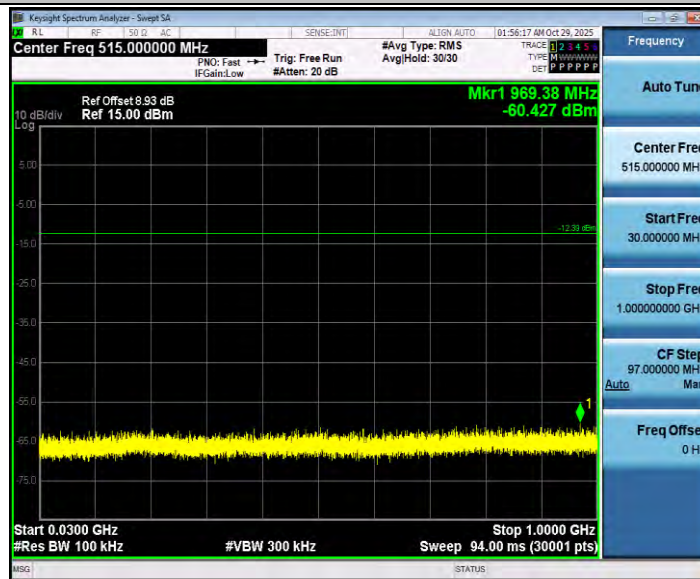
DH1_Ant1_2480_1000~26500



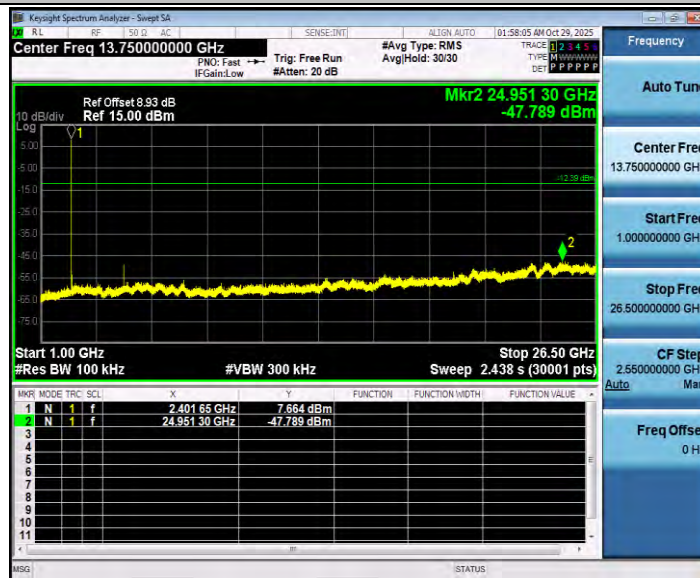
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



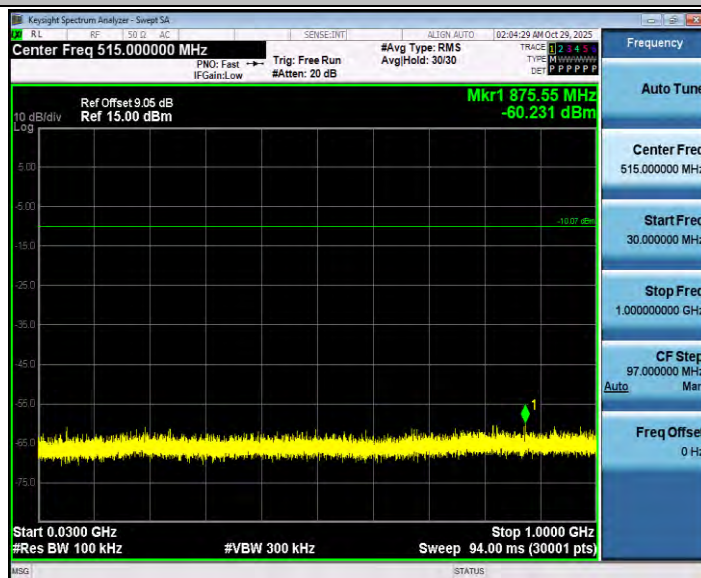
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



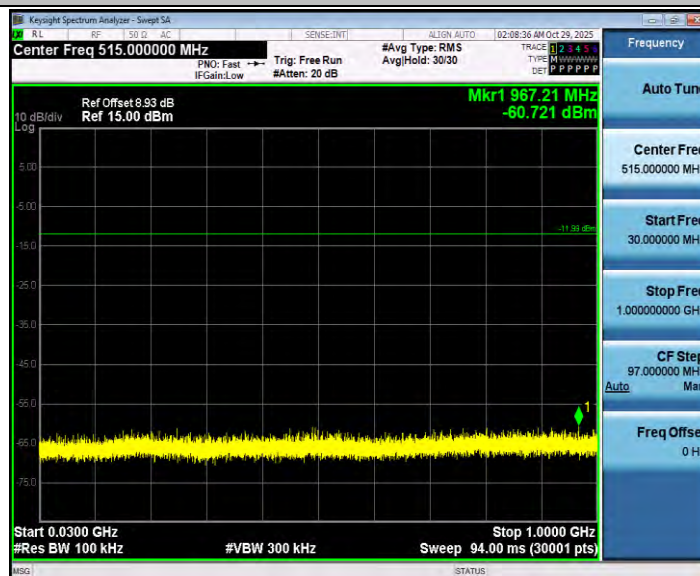
2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



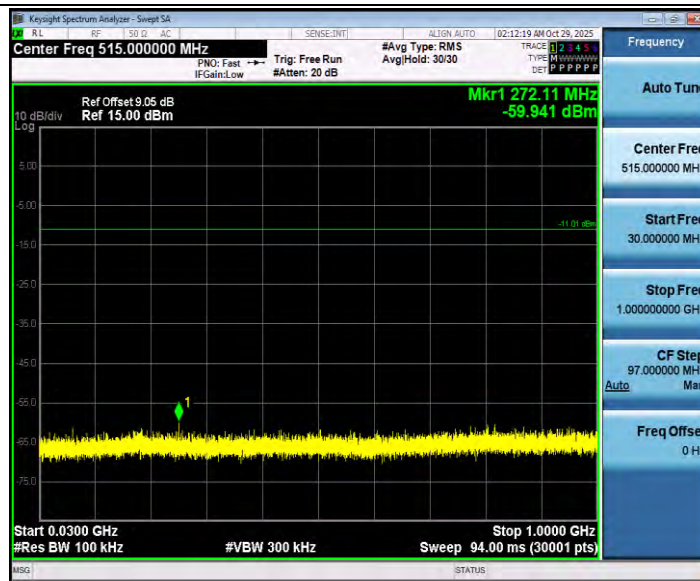
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

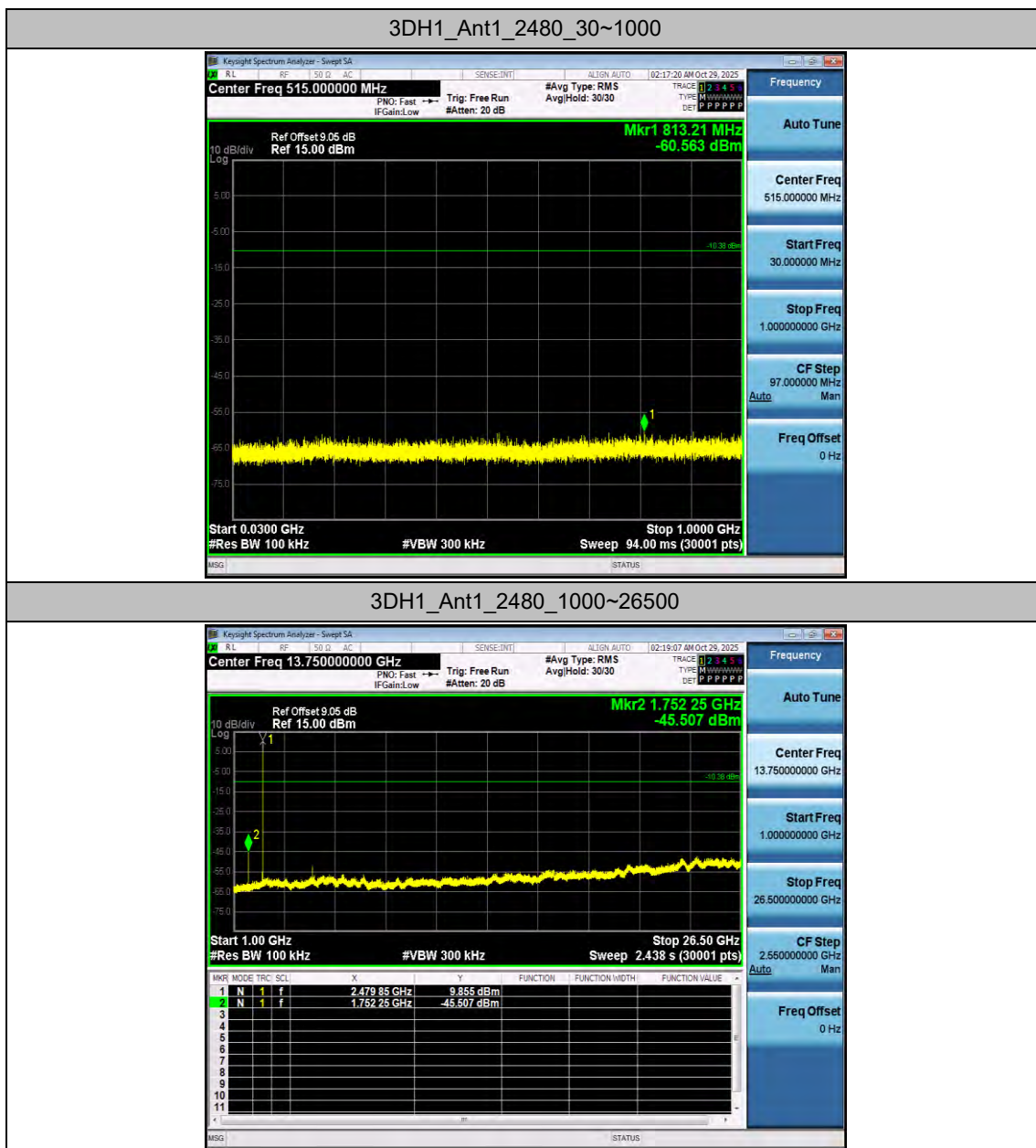


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

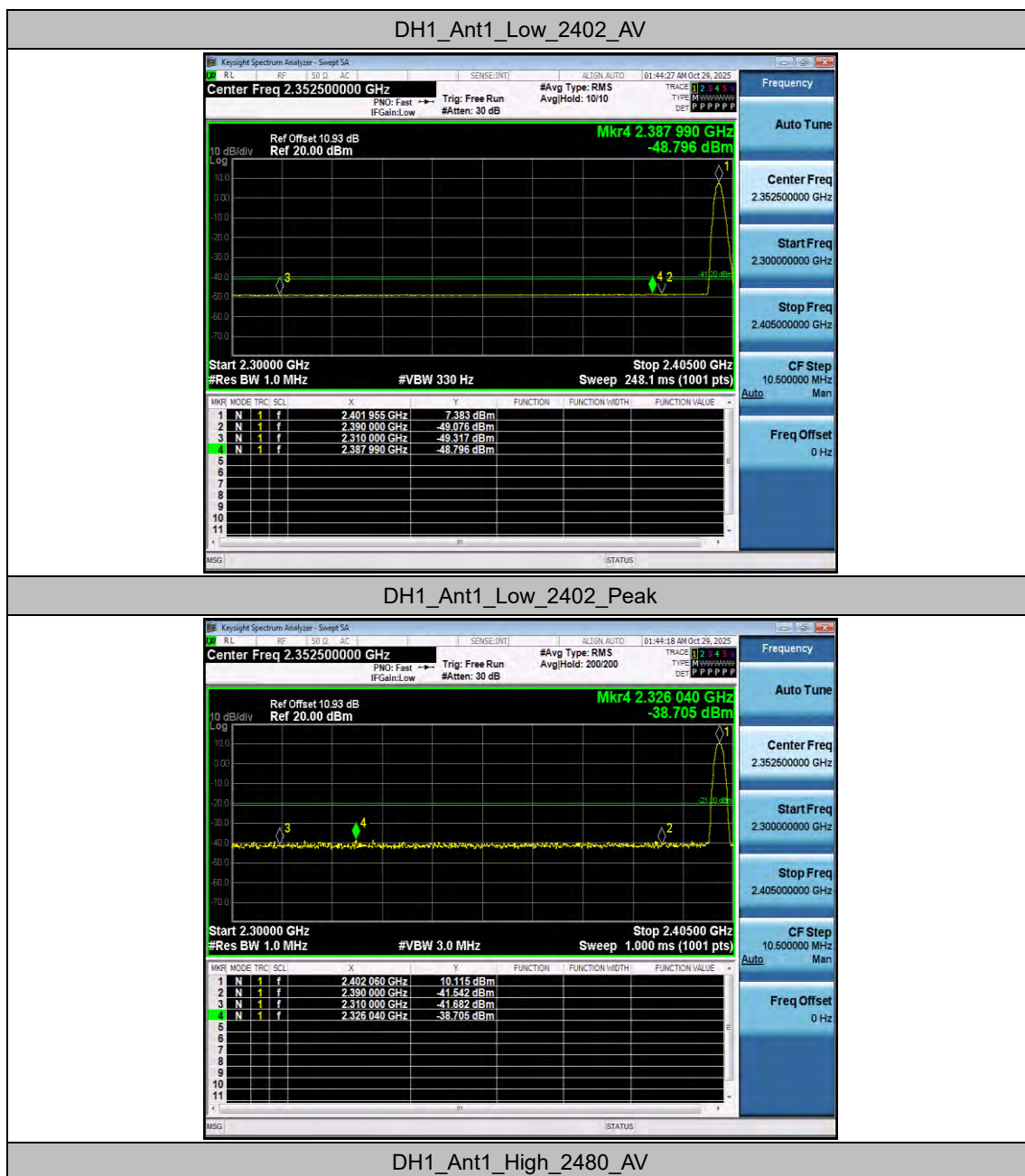
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.32	≤-41.20	45.88	≤54	PASS
				AV	2387.990	-48.8	≤-41.20	46.40	≤54	PASS
				AV	2390.000	-49.08	≤-41.20	46.12	≤54	PASS
				Peak	2310.000	-41.68	≤-21.20	53.52	≤74	PASS
				Peak	2326.040	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2390.000	-41.54	≤-21.20	53.66	≤74	PASS
		High	2480	AV	2483.500	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2483.520	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2500.000	-48.61	≤-41.20	46.59	≤54	PASS
				Peak	2483.500	-40.37	≤-21.20	54.83	≤74	PASS
				Peak	2485.040	-38.64	≤-21.20	56.56	≤74	PASS
				Peak	2500.000	-40.19	≤-21.20	55.01	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.3	≤-41.20	45.90	≤54	PASS
				AV	2389.040	-48.7	≤-41.20	46.50	≤54	PASS
				AV	2390.000	-48.98	≤-41.20	46.22	≤54	PASS
				Peak	2310.000	-42.08	≤-21.20	53.12	≤74	PASS
				Peak	2348.300	-37.73	≤-21.20	57.47	≤74	PASS
				Peak	2390.000	-40.96	≤-21.20	54.24	≤74	PASS
		High	2480	AV	2483.500	-46.98	≤-41.20	48.22	≤54	PASS
				AV	2483.520	-46.98	≤-41.20	48.22	≤54	PASS
				AV	2500.000	-48.58	≤-41.20	46.62	≤54	PASS
				Peak	2483.500	-41.57	≤-21.20	53.63	≤74	PASS
				Peak	2499.200	-38.15	≤-21.20	57.05	≤74	PASS
				Peak	2500.000	-40.69	≤-21.20	54.51	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.15	≤-41.20	46.05	≤54	PASS
				AV	2388.305	-48.72	≤-41.20	46.48	≤54	PASS
				AV	2390.000	-48.84	≤-41.20	46.36	≤54	PASS
				Peak	2310.000	-41.31	≤-21.20	53.89	≤74	PASS
				Peak	2373.500	-38.34	≤-21.20	56.86	≤74	PASS
				Peak	2390.000	-40.27	≤-21.20	54.93	≤74	PASS
		High	2480	AV	2483.500	-47.21	≤-41.20	47.99	≤54	PASS
				AV	2483.520	-47.21	≤-41.20	47.99	≤54	PASS
				AV	2500.000	-48.53	≤-41.20	46.67	≤54	PASS
				Peak	2483.500	-40.17	≤-21.20	55.03	≤74	PASS
				Peak	2484.240	-38.92	≤-21.20	56.28	≤74	PASS

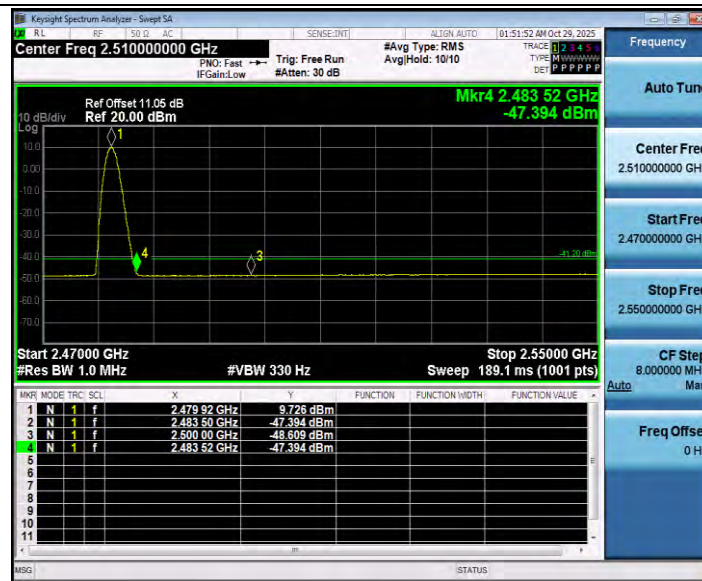
				Peak	2500.000	-41.45	≤-21.20	53.75	≤74	PASS
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Note:

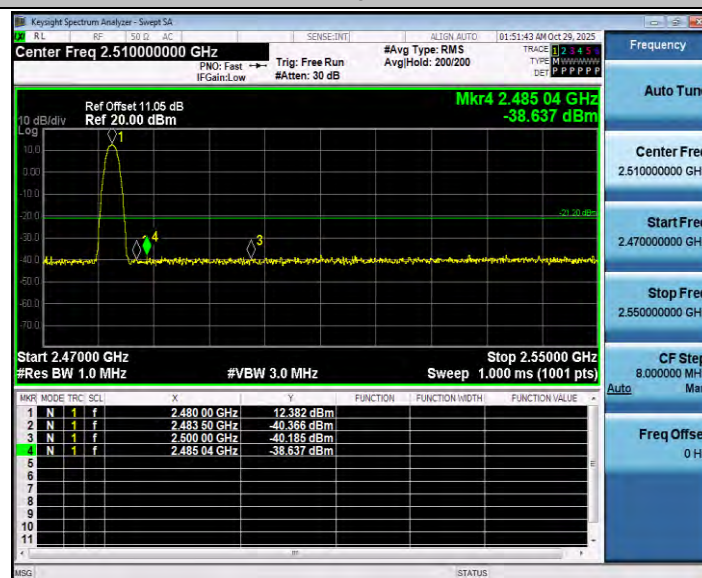
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

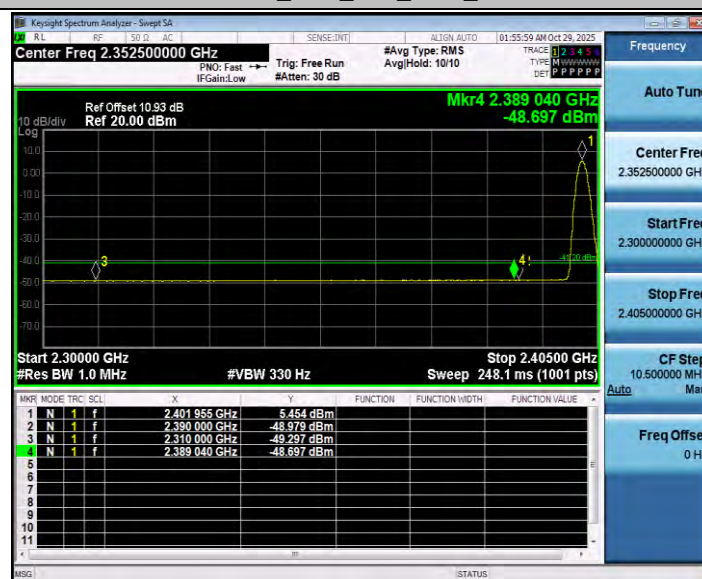




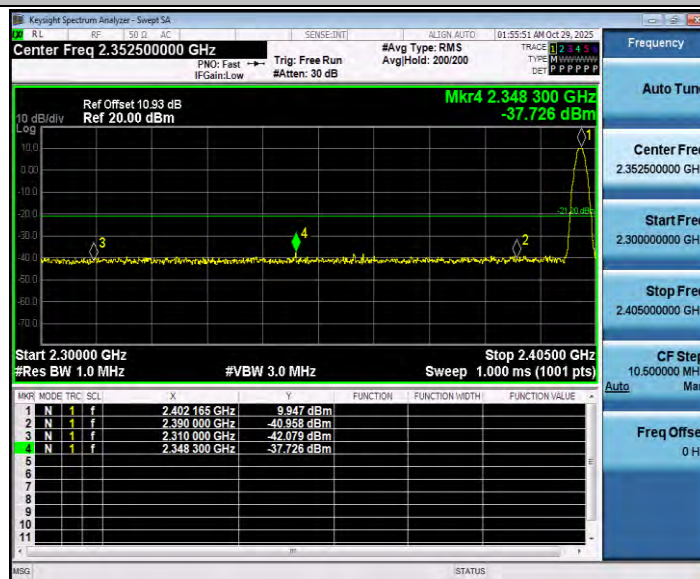
DH1_Ant1_High_2480_Peak



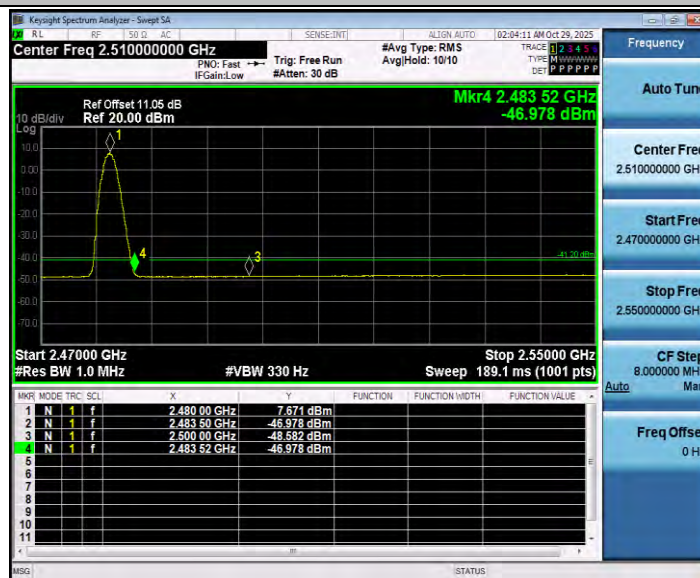
2DH1_Ant1_Low_2402_AV



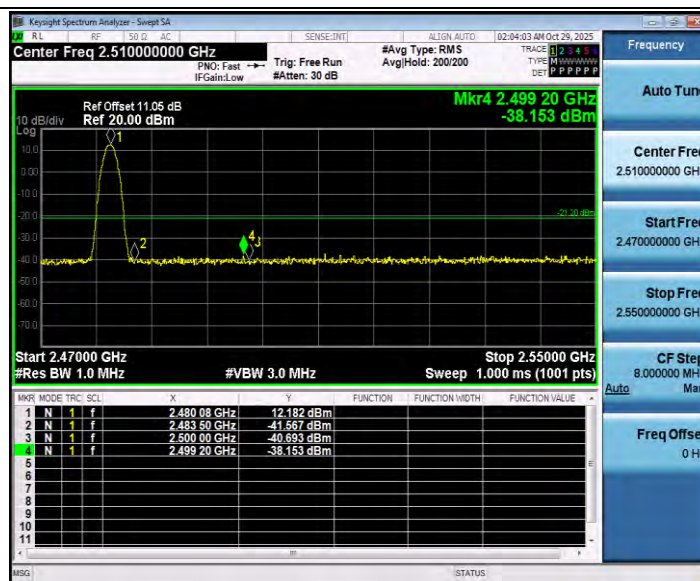
2DH1_Ant1_Low_2402_Peak



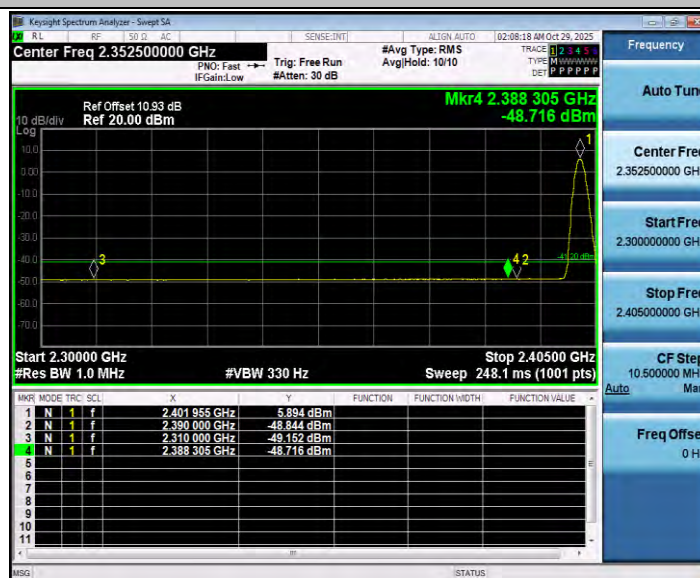
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

