

Case No. : <u>GTS20250613027-3-01</u>
Ambient Condition: <u>22</u> °C, <u>54</u> %RH
According Standard: ■Part15C
Test Date: <u>2025.8.4-2025.8.22</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	0.855	2401.622	2402.477	---	---
		2441	0.831	2440.580	2441.411	---	---
		2480	0.864	2479.628	2480.492	---	---
2DH1	Ant1	2402	1.170	2401.427	2402.597	---	---
		2441	1.140	2440.454	2441.594	---	---
		2480	1.170	2479.430	2480.600	---	---
3DH1	Ant1	2402	1.164	2401.457	2402.621	---	---
		2441	1.128	2440.457	2441.585	---	---
		2480	1.152	2479.469	2480.621	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



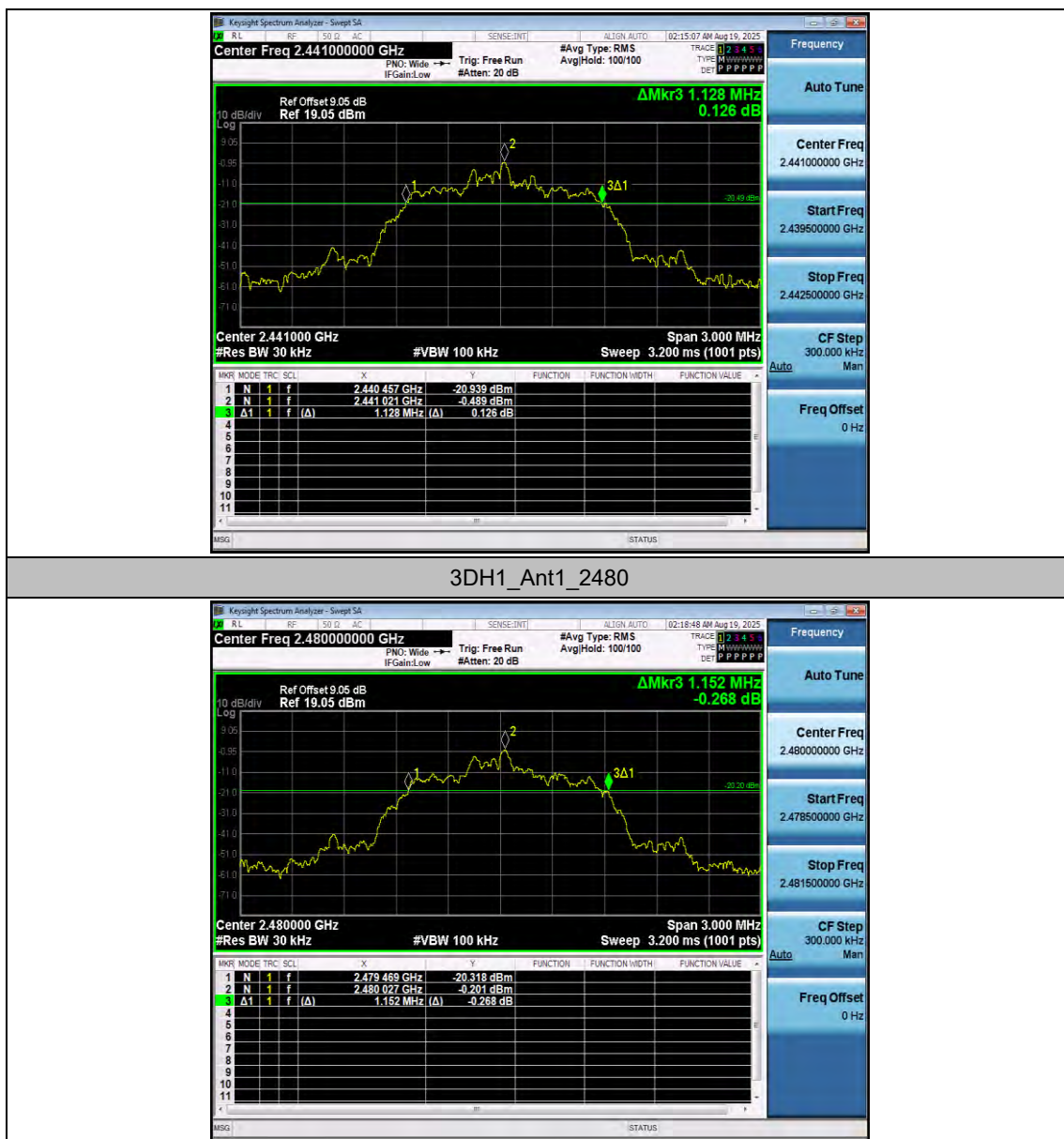
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441

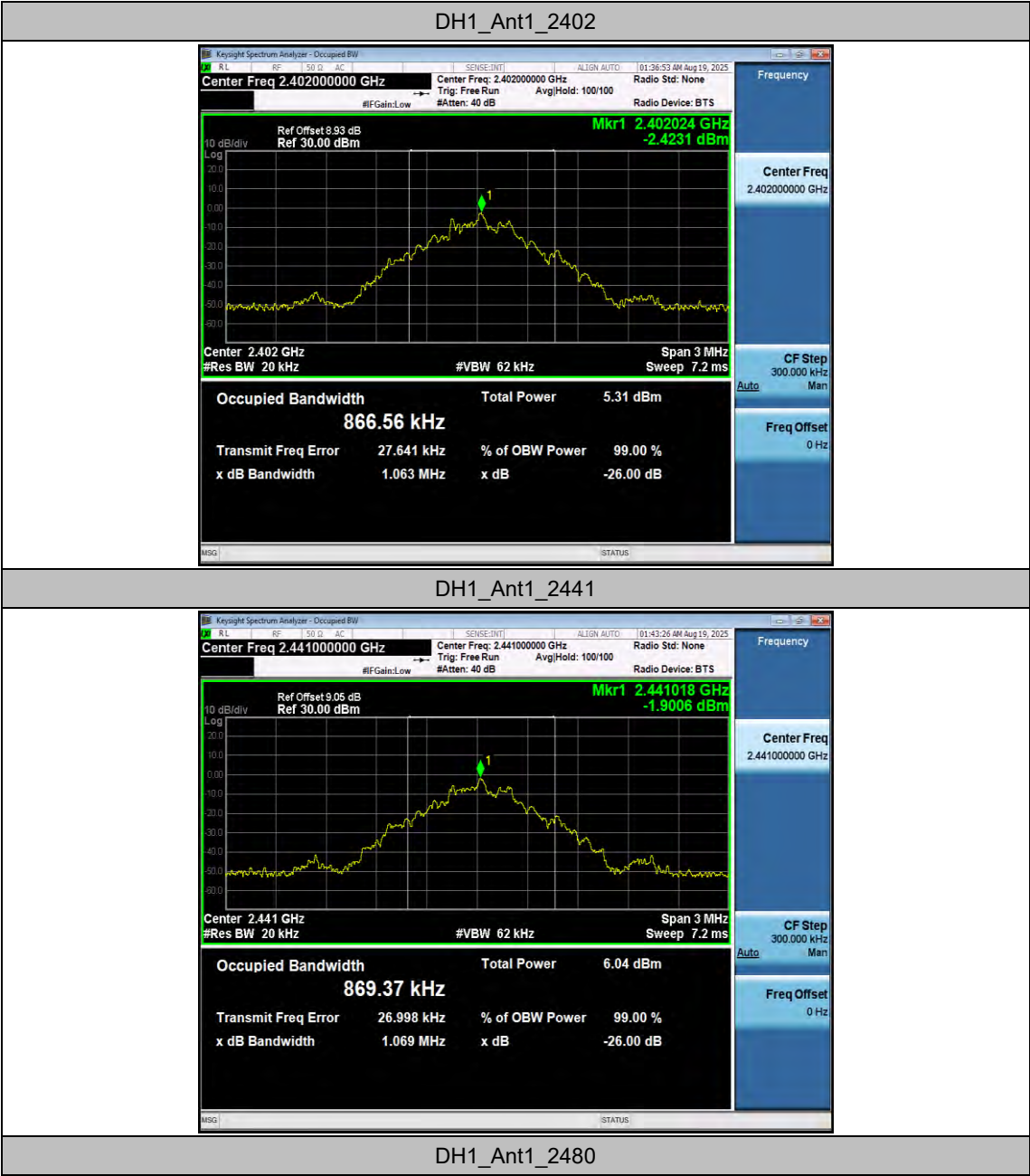


AppendixA.2: Occupied Channel Bandwidth

Test Result

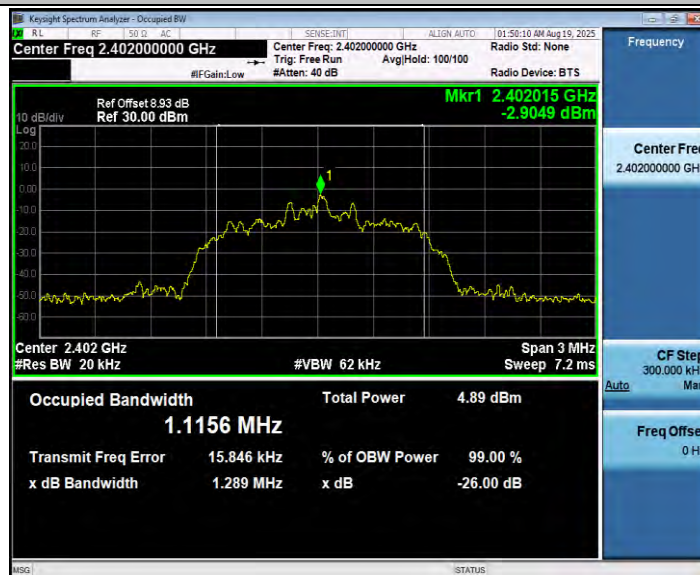
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.86656	2401.5944	2402.4609	---	---
		2441	0.86937	2440.5923	2441.4617	---	---
		2480	0.86080	2479.5928	2480.4536	---	---
2DH1	Ant1	2402	1.1156	2401.4581	2402.5737	---	---
		2441	1.1144	2440.4587	2441.5731	---	---
		2480	1.1125	2479.4619	2480.5744	---	---
3DH1	Ant1	2402	1.0961	2401.4798	2402.5759	---	---
		2441	1.0913	2440.4810	2441.5723	---	---
		2480	1.1005	2479.4771	2480.5776	---	---

Test Graphs





2DHI_Ant1_2402



2DHI_Ant1_2441



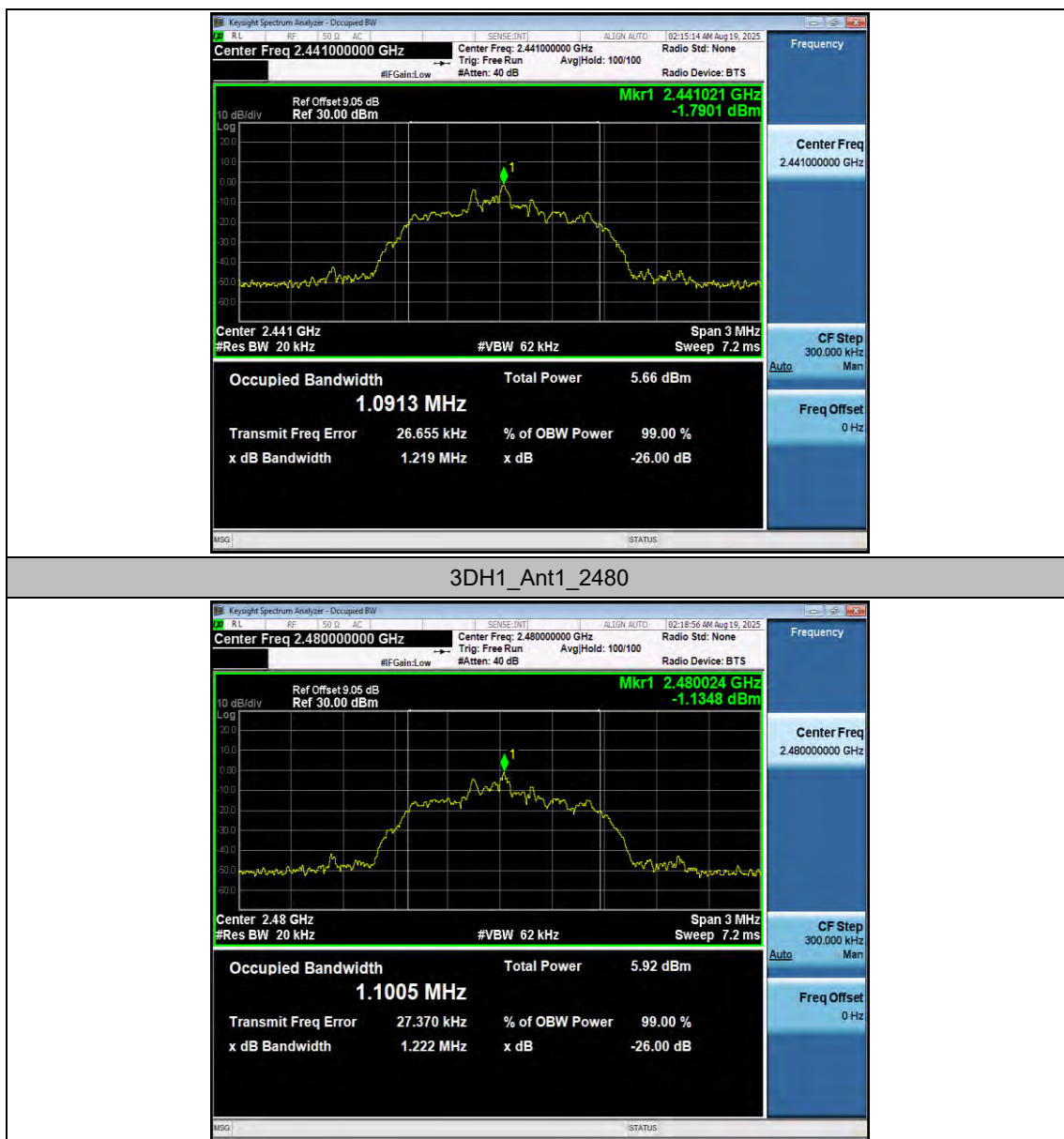
2DH1_Ant1_2480



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	0.35	≤30.00	PASS
		2441	0.96	≤30.00	PASS
		2480	1.49	≤30.00	PASS
2DH1	Ant1	2402	0.21	≤20.97	PASS
		2441	0.87	≤20.97	PASS
		2480	1.47	≤20.97	PASS
3DH1	Ant1	2402	0.36	≤20.97	PASS
		2441	0.95	≤20.97	PASS
		2480	1.48	≤20.97	PASS

AppendixA.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1	≥ 0.864	PASS
		Hop_2441	0.99	≥ 0.864	PASS
		Hop_2480	0.992	≥ 0.864	PASS
2DH1	Ant1	Hop_2402	0.842	≥ 0.780	PASS
		Hop_2441	0.996	≥ 0.780	PASS
		Hop_2480	1.008	≥ 0.780	PASS
3DH1	Ant1	Hop_2402	0.992	≥ 0.776	PASS
		Hop_2441	1	≥ 0.776	PASS
		Hop_2480	1.002	≥ 0.776	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2D11_Ant1_Hop_2402



2D11_Ant1_Hop_2441



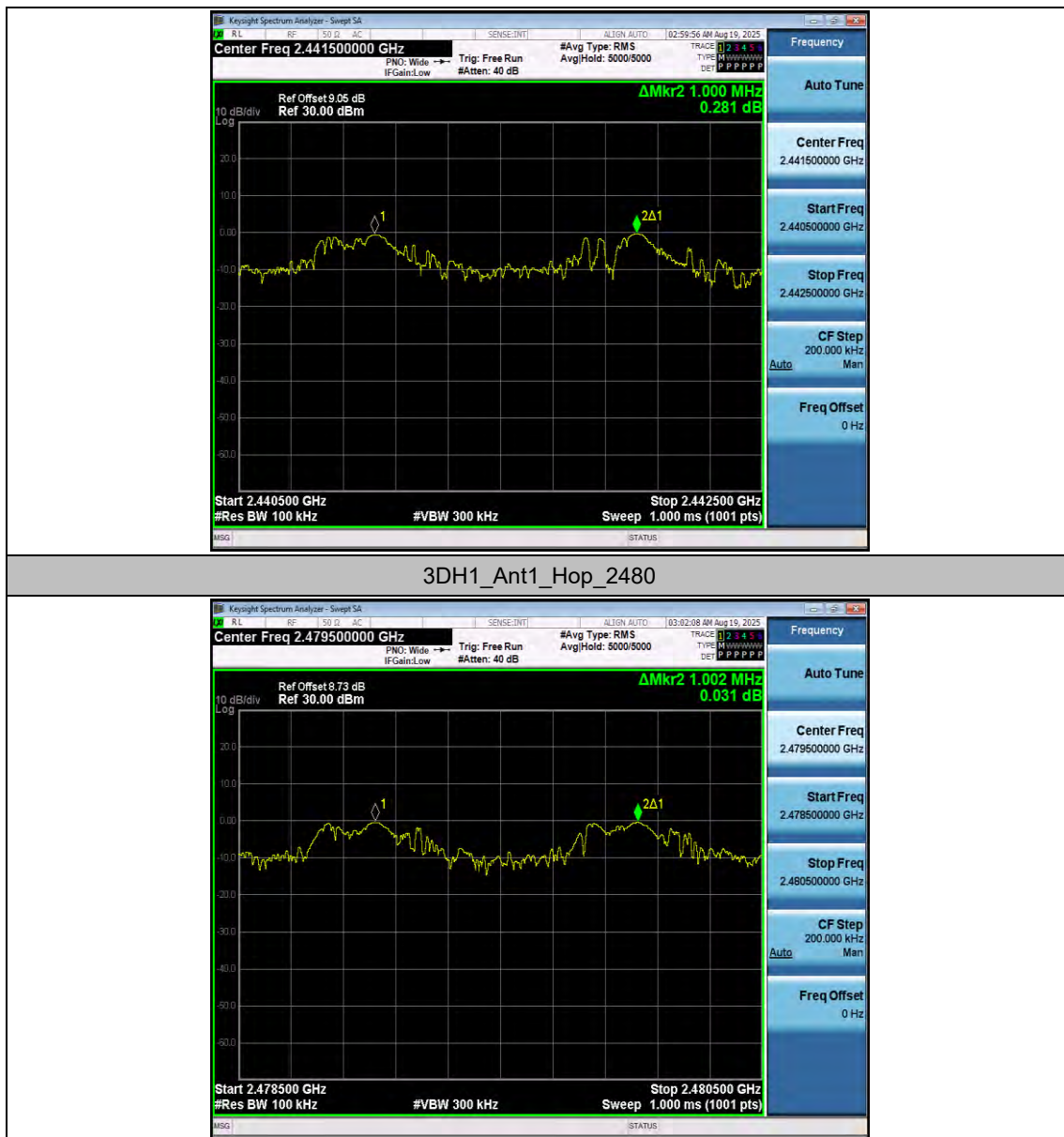
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

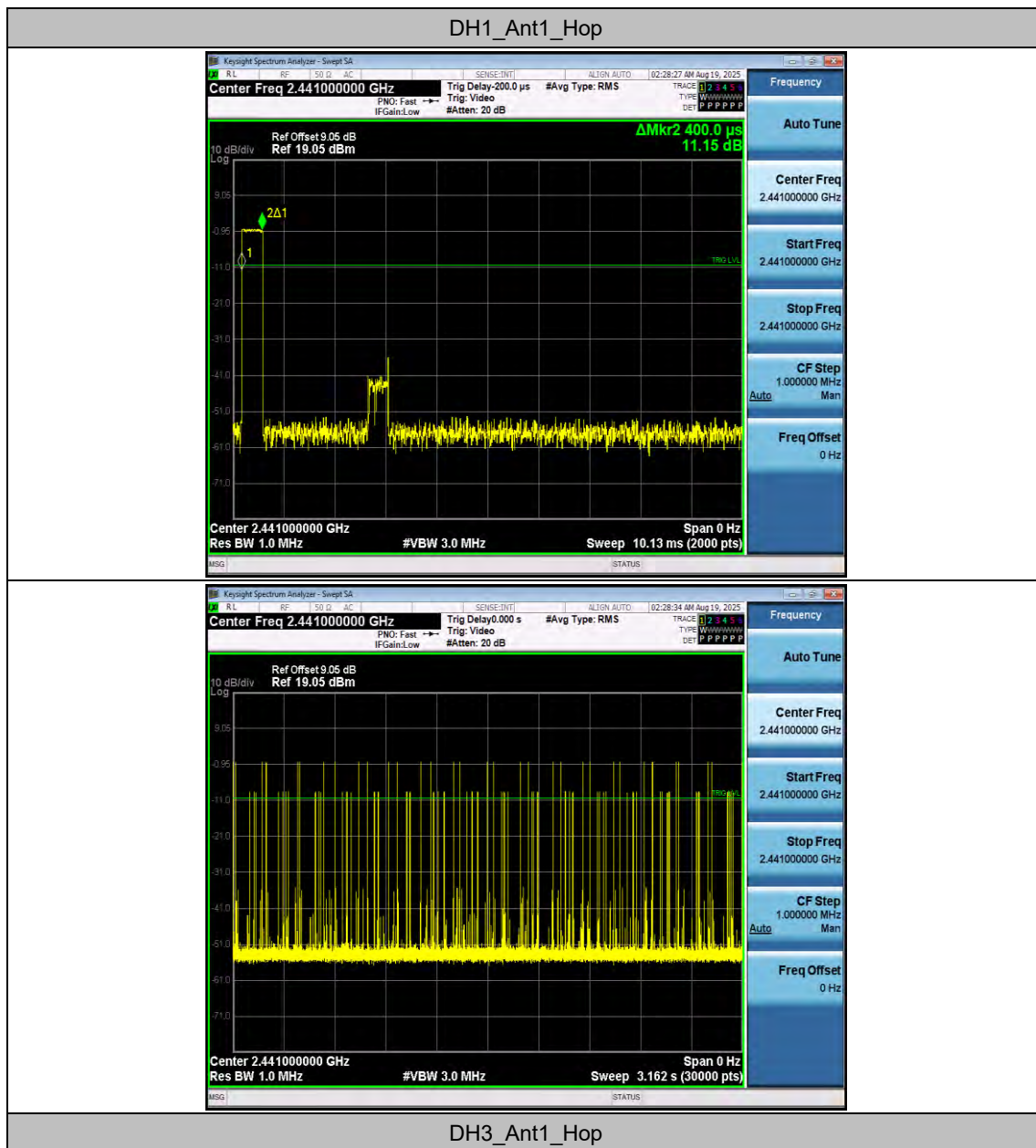


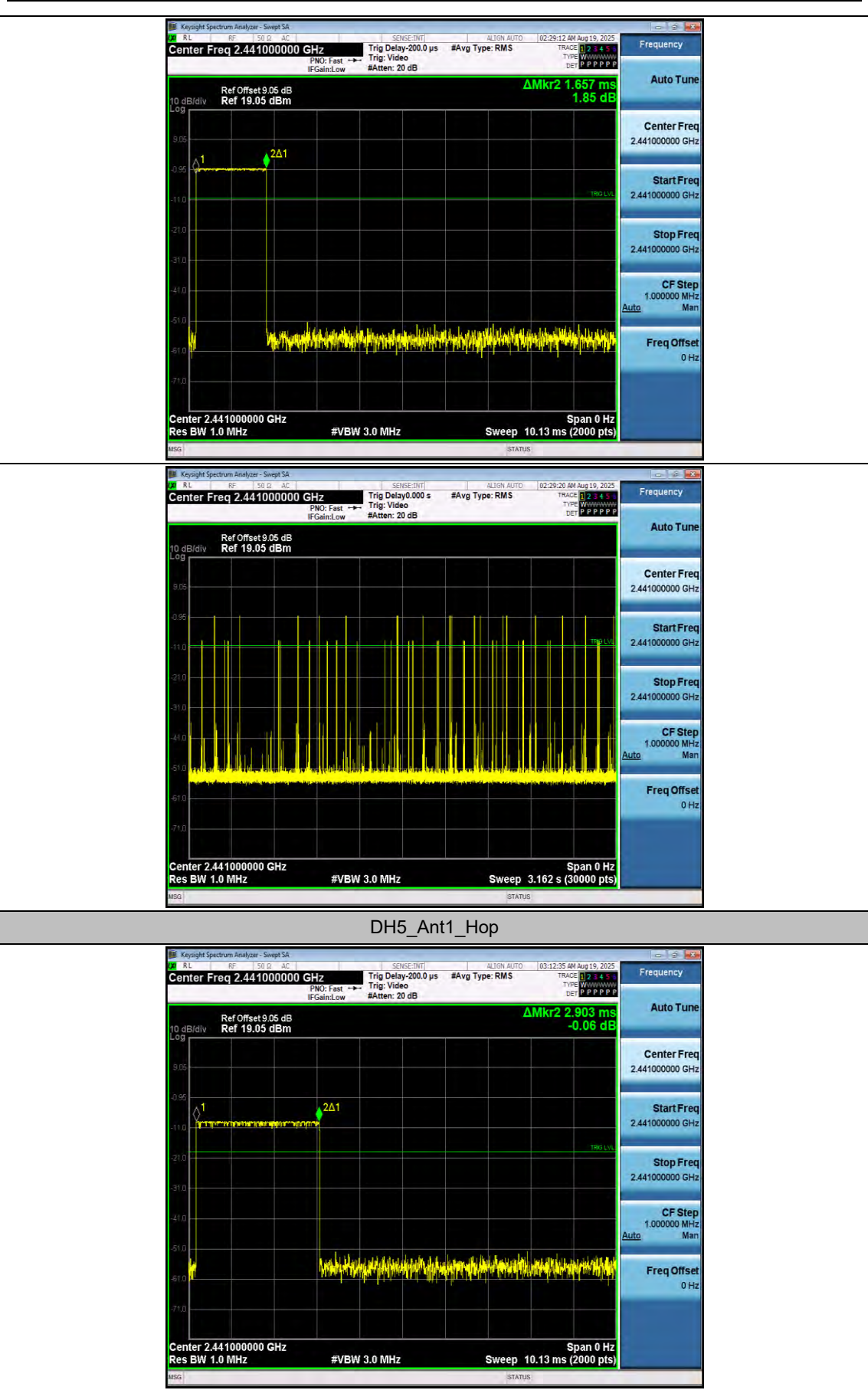
AppendixA.5: Time of occupancy

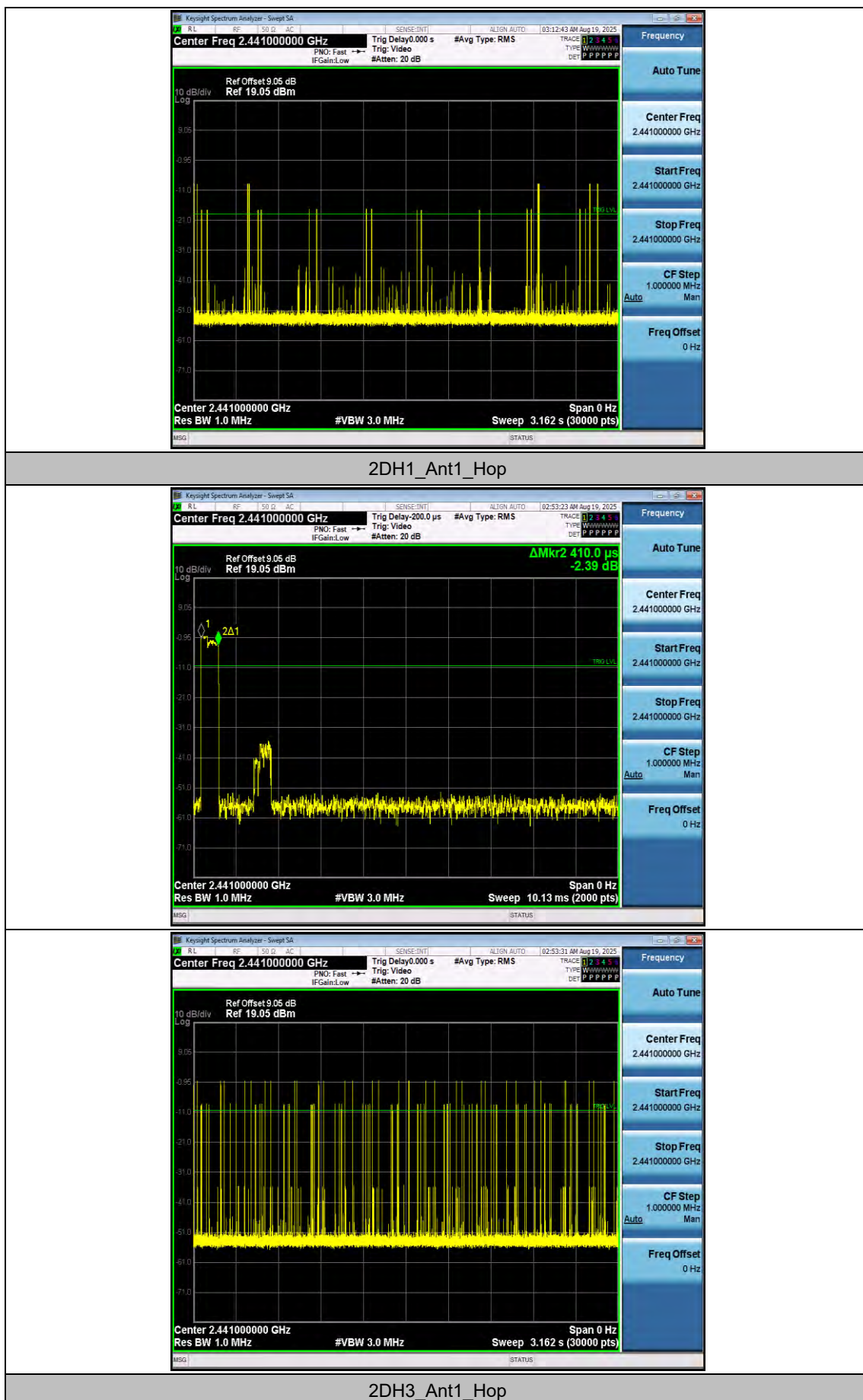
Test Result

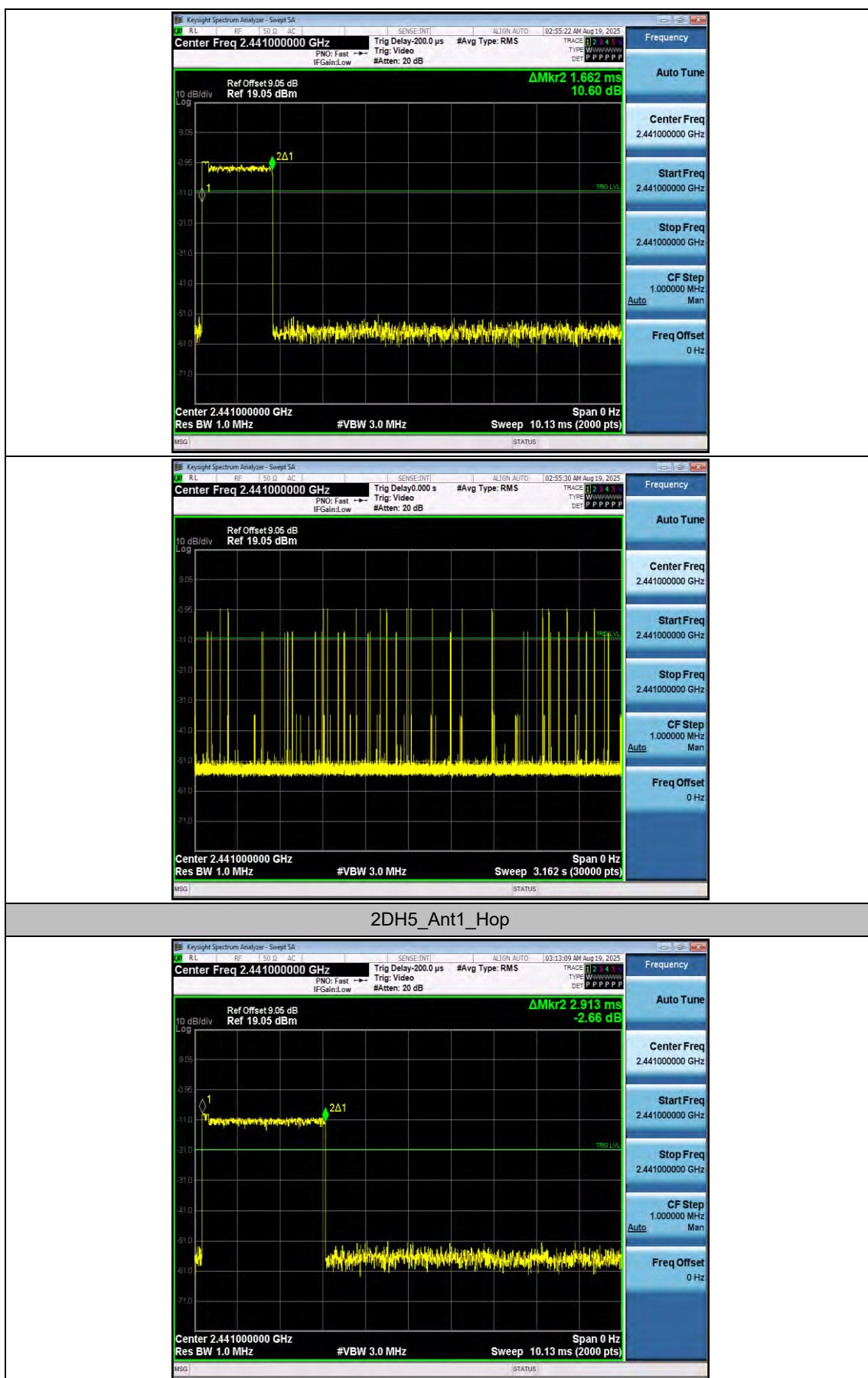
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.400	330	0.132	≤0.4	PASS
DH3	Ant1	Hop	1.657	190	0.315	≤0.4	PASS
DH5	Ant1	Hop	2.903	80	0.232	≤0.4	PASS
2DH1	Ant1	Hop	0.410	330	0.135	≤0.4	PASS
2DH3	Ant1	Hop	1.662	170	0.283	≤0.4	PASS
2DH5	Ant1	Hop	2.913	80	0.233	≤0.4	PASS
3DH1	Ant1	Hop	0.405	330	0.134	≤0.4	PASS
3DH3	Ant1	Hop	1.657	190	0.315	≤0.4	PASS
3DH5	Ant1	Hop	2.913	70	0.204	≤0.4	PASS

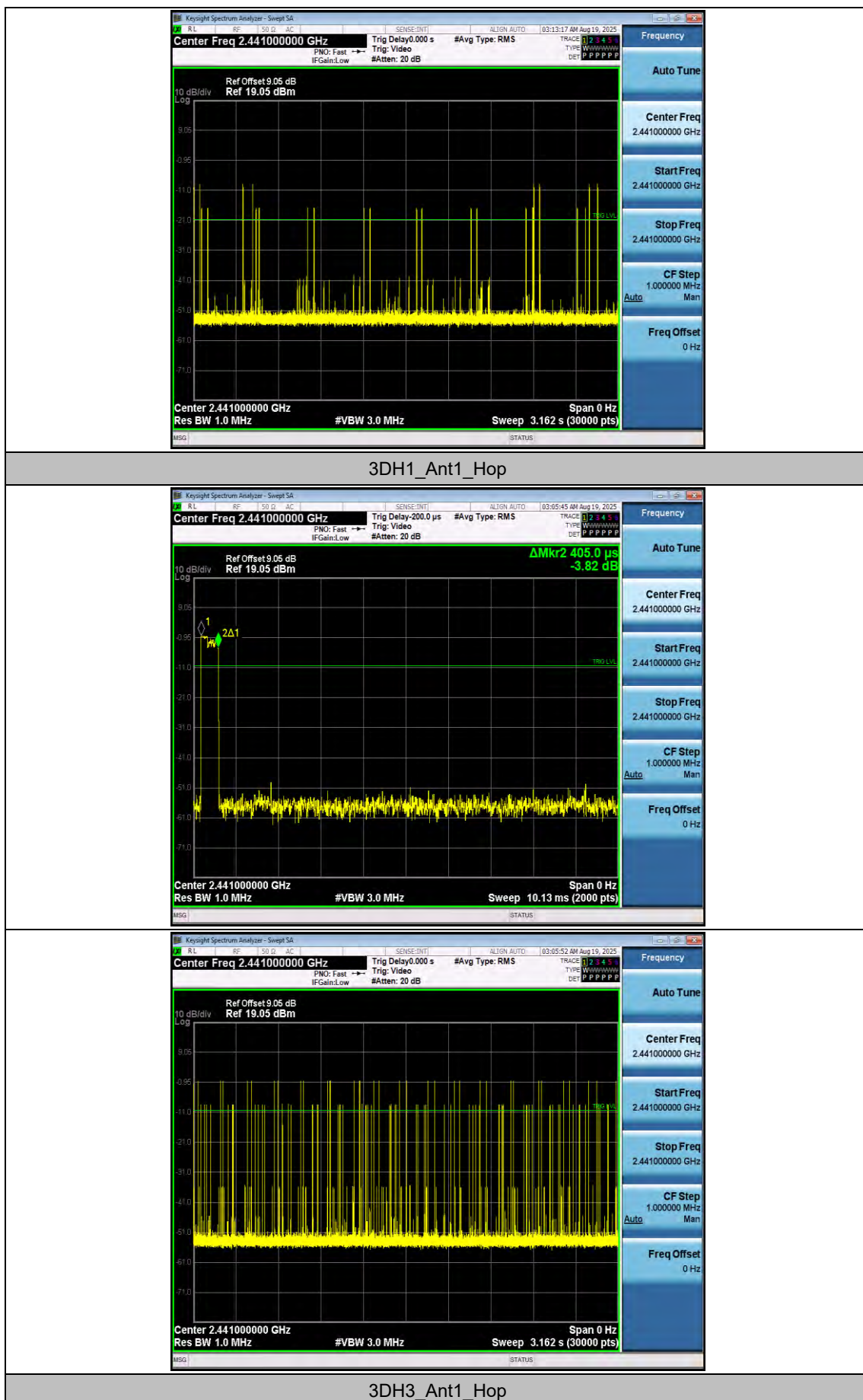
Test Graphs

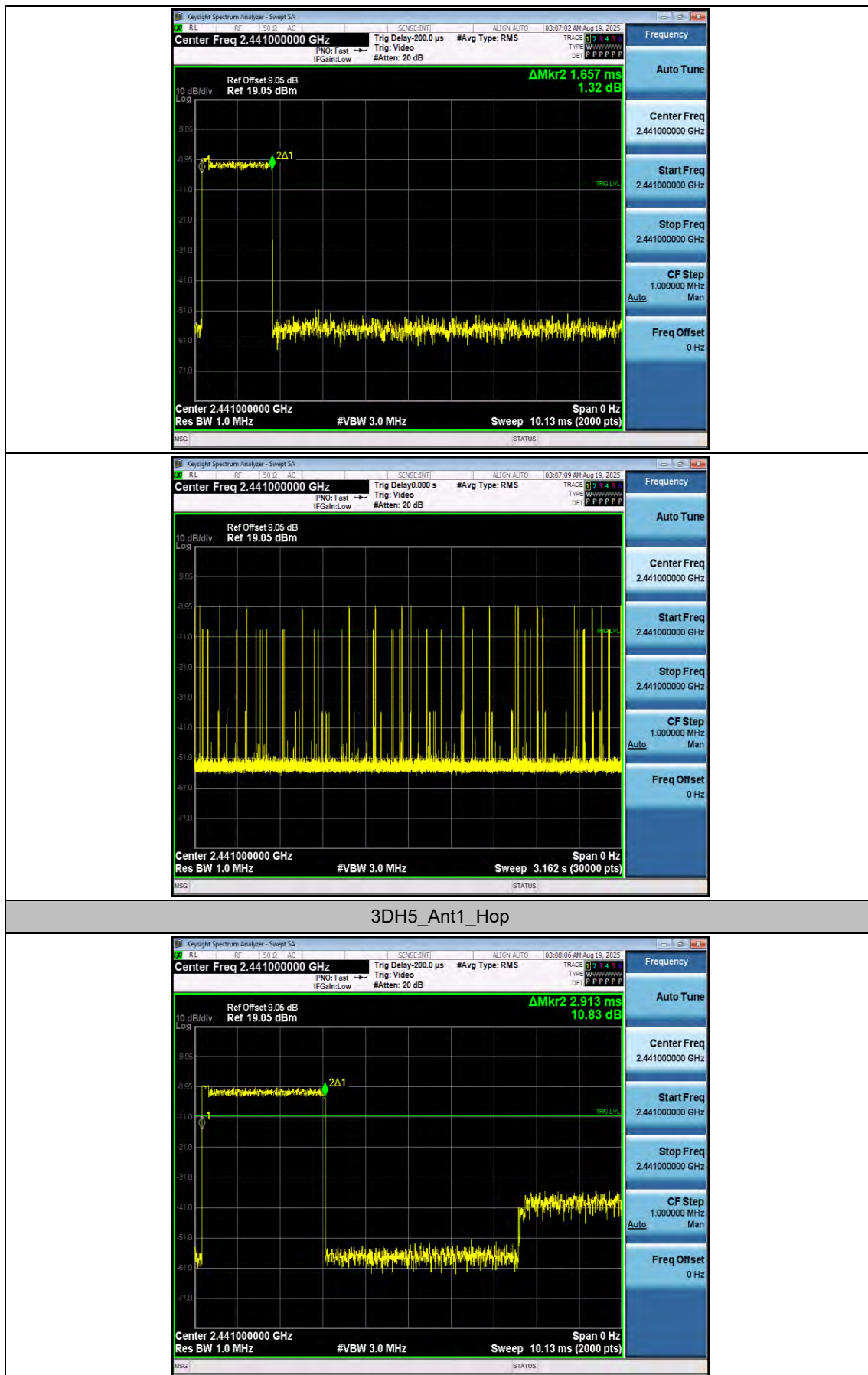












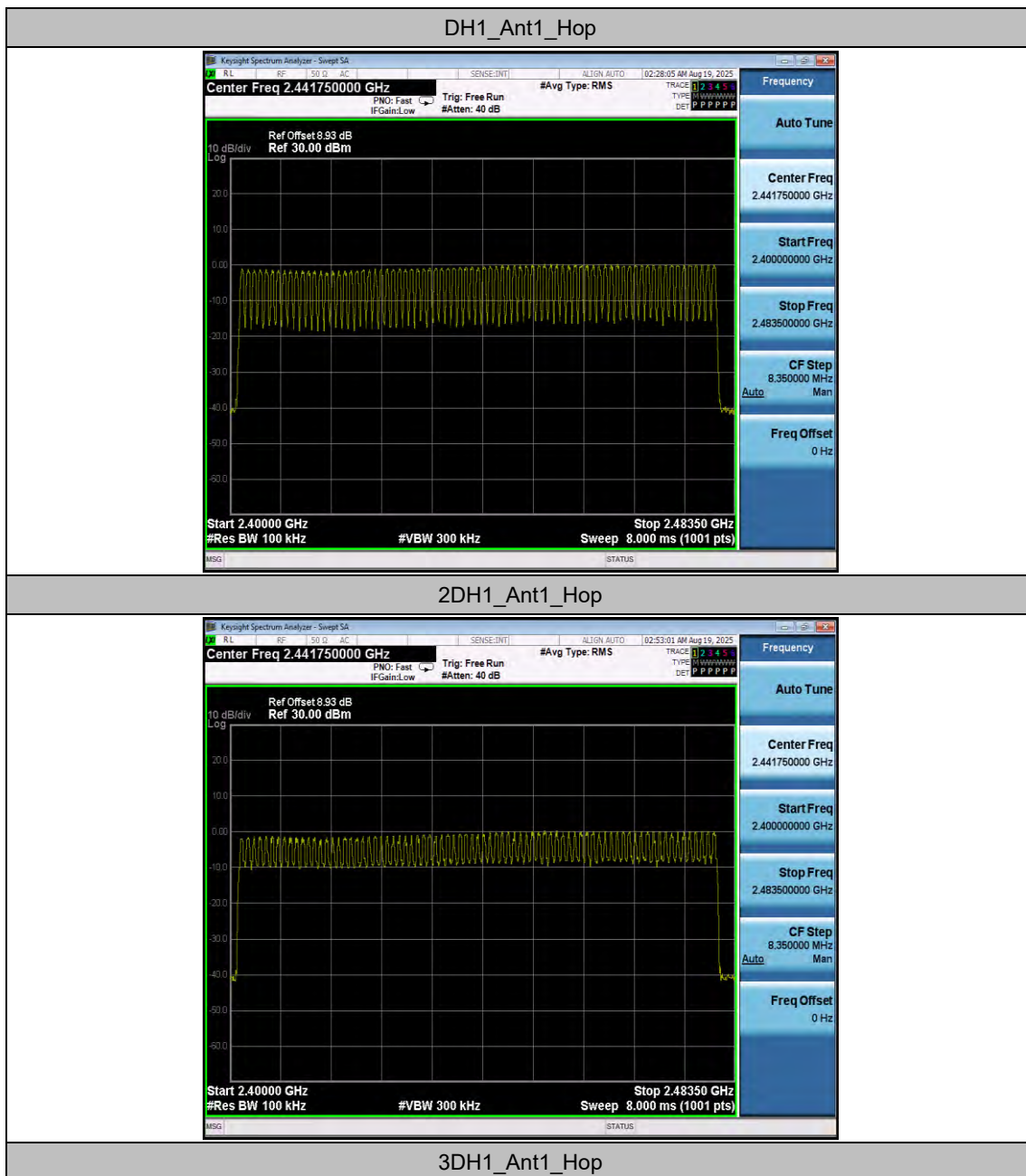


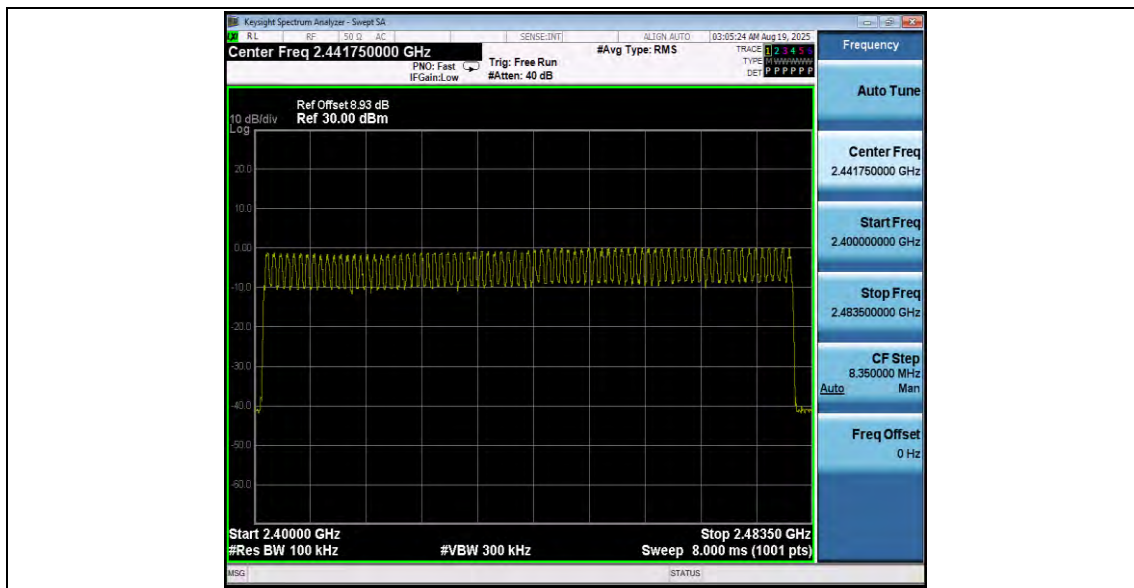
AppendixA.6: Number of hopping channels

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





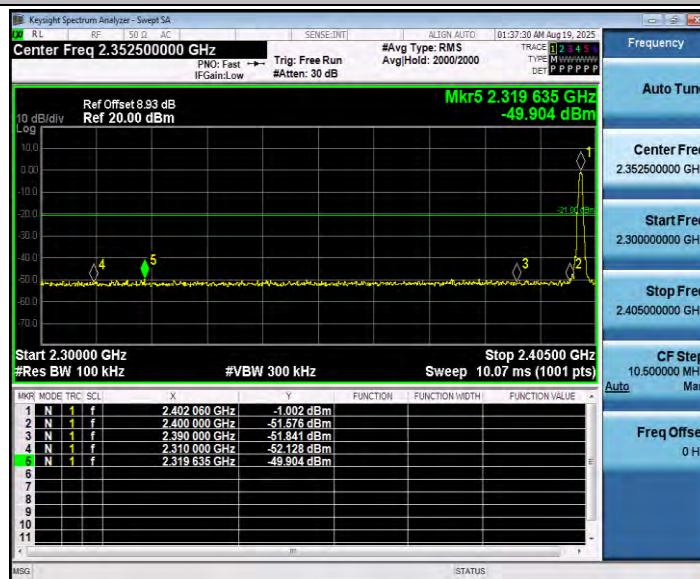
Appendix A.7: Band edge measurements

Test Result

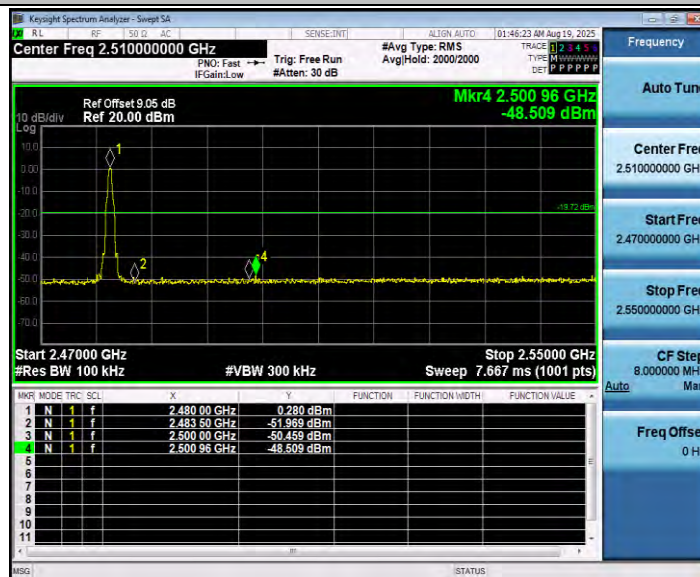
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	-1.00	-49.9	≤-21	PASS
		High	2480	0.28	-48.51	≤-19.72	PASS
		Low	Hop_2402	-1.25	-49.45	≤-21.25	PASS
		High	Hop_2480	-0.23	-48.28	≤-20.23	PASS
2DH1	Ant1	Low	2402	-1.02	-49.6	≤-21.02	PASS
		High	2480	0.30	-48.88	≤-19.71	PASS
		Low	Hop_2402	-1.33	-49.74	≤-21.33	PASS
		High	Hop_2480	0.07	-49.04	≤-19.93	PASS
3DH1	Ant1	Low	2402	-1.00	-49.17	≤-21	PASS
		High	2480	0.30	-48.56	≤-19.7	PASS
		Low	Hop_2402	-1.31	-49.27	≤-21.31	PASS
		High	Hop_2480	0.01	-48.49	≤-19.99	PASS

Test Graphs

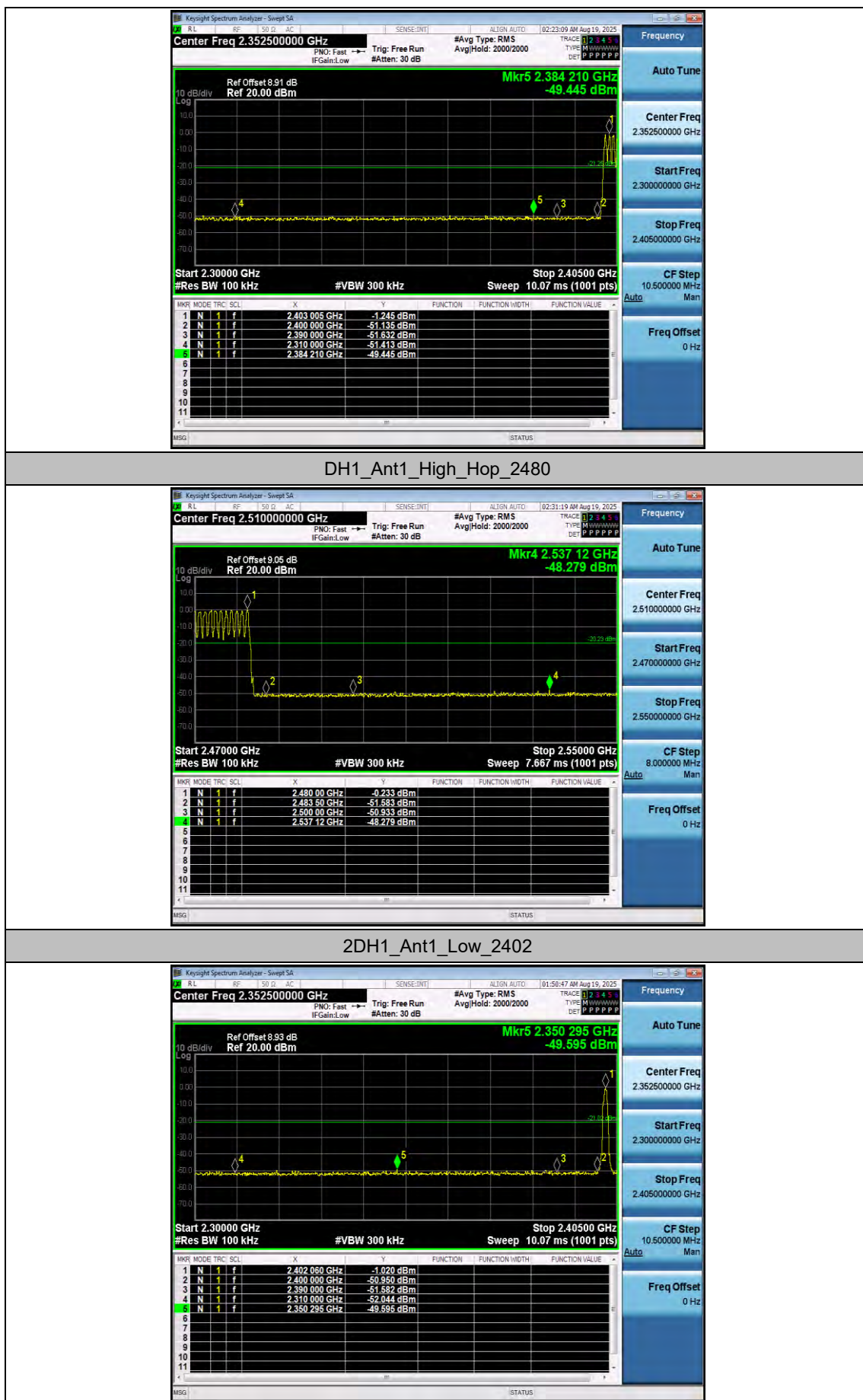
DH1_Ant1_Low_2402



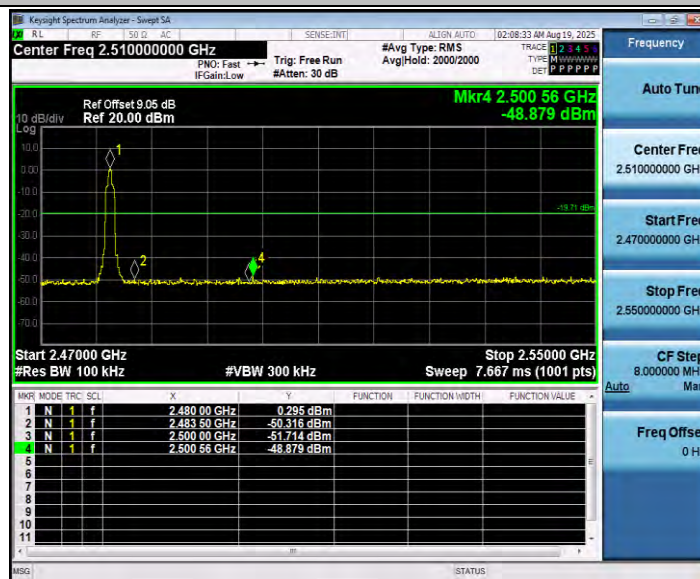
DH1_Ant1_High_2480



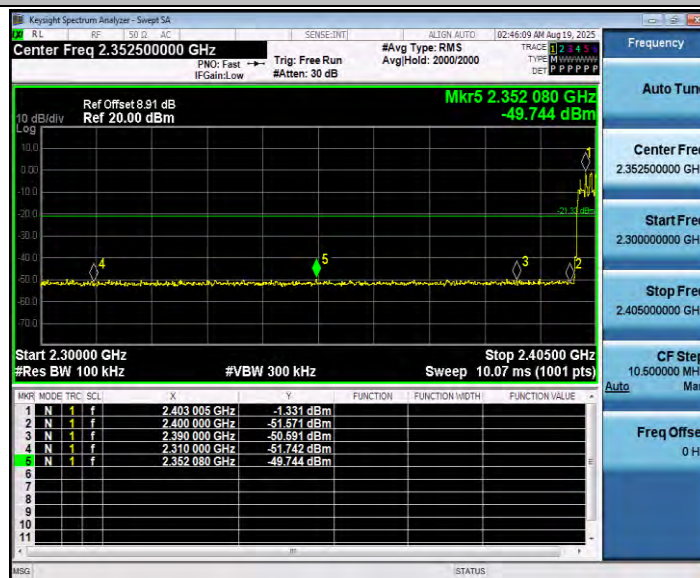
DH1_Ant1_Low_Hop_2402



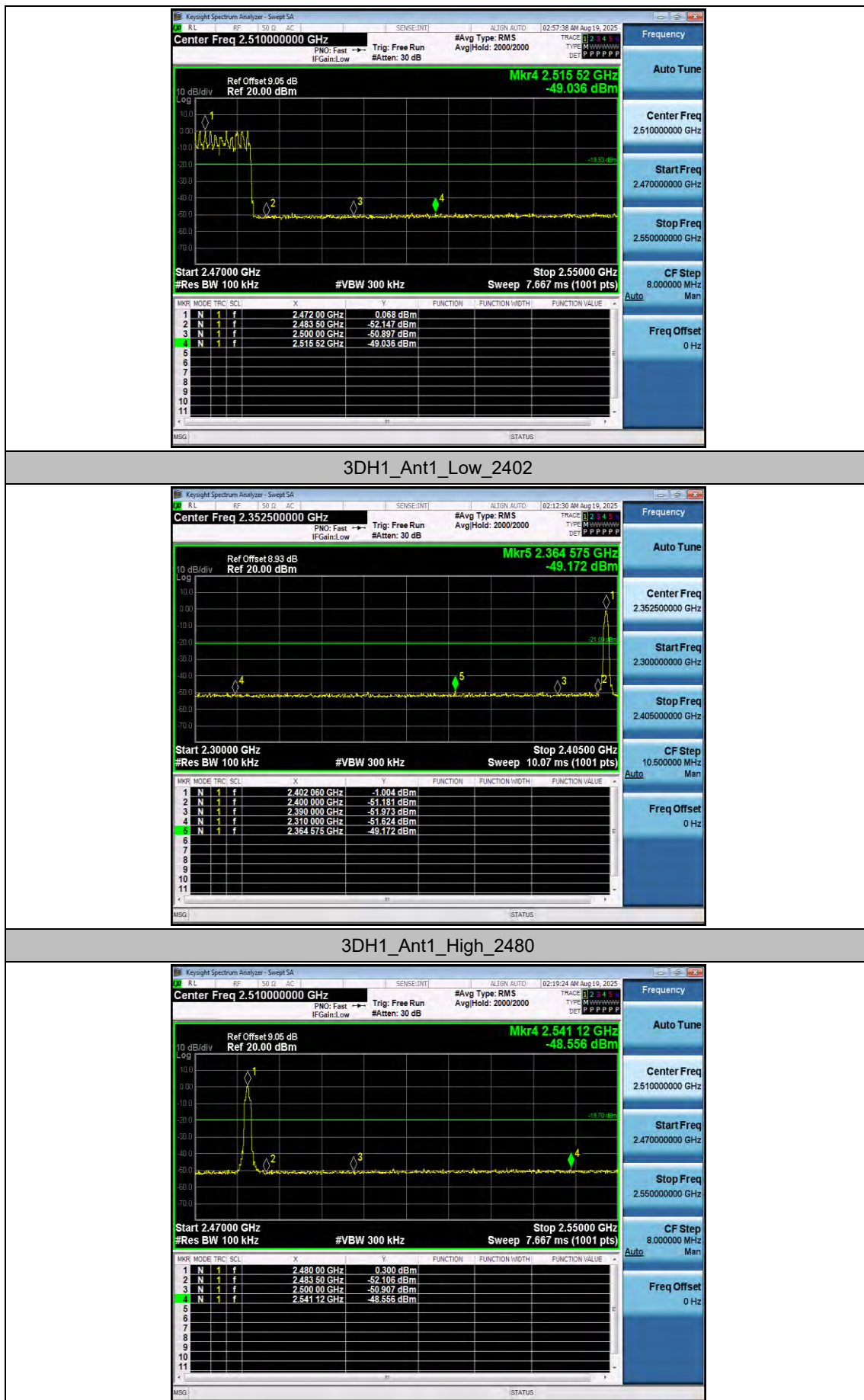
2DH1_Ant1_High_2480



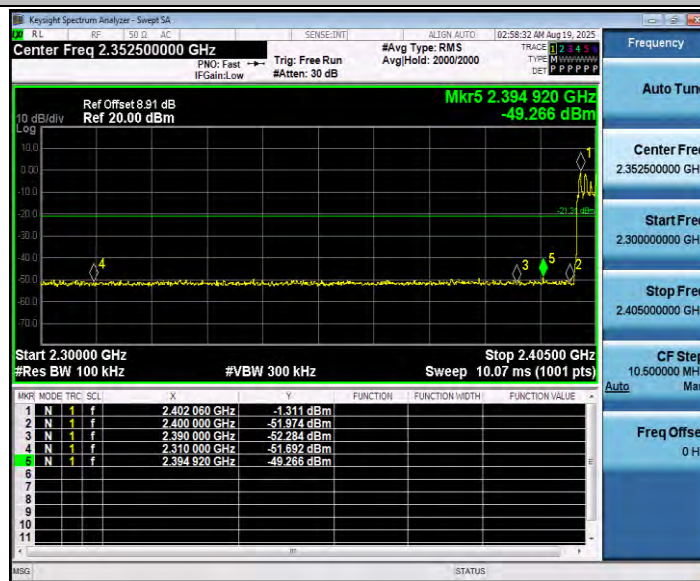
2DH1_Ant1_Low_Hop_2402



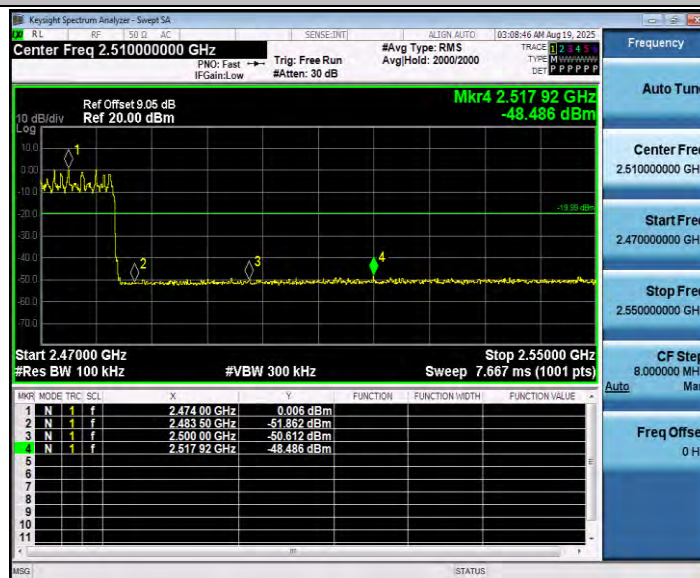
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

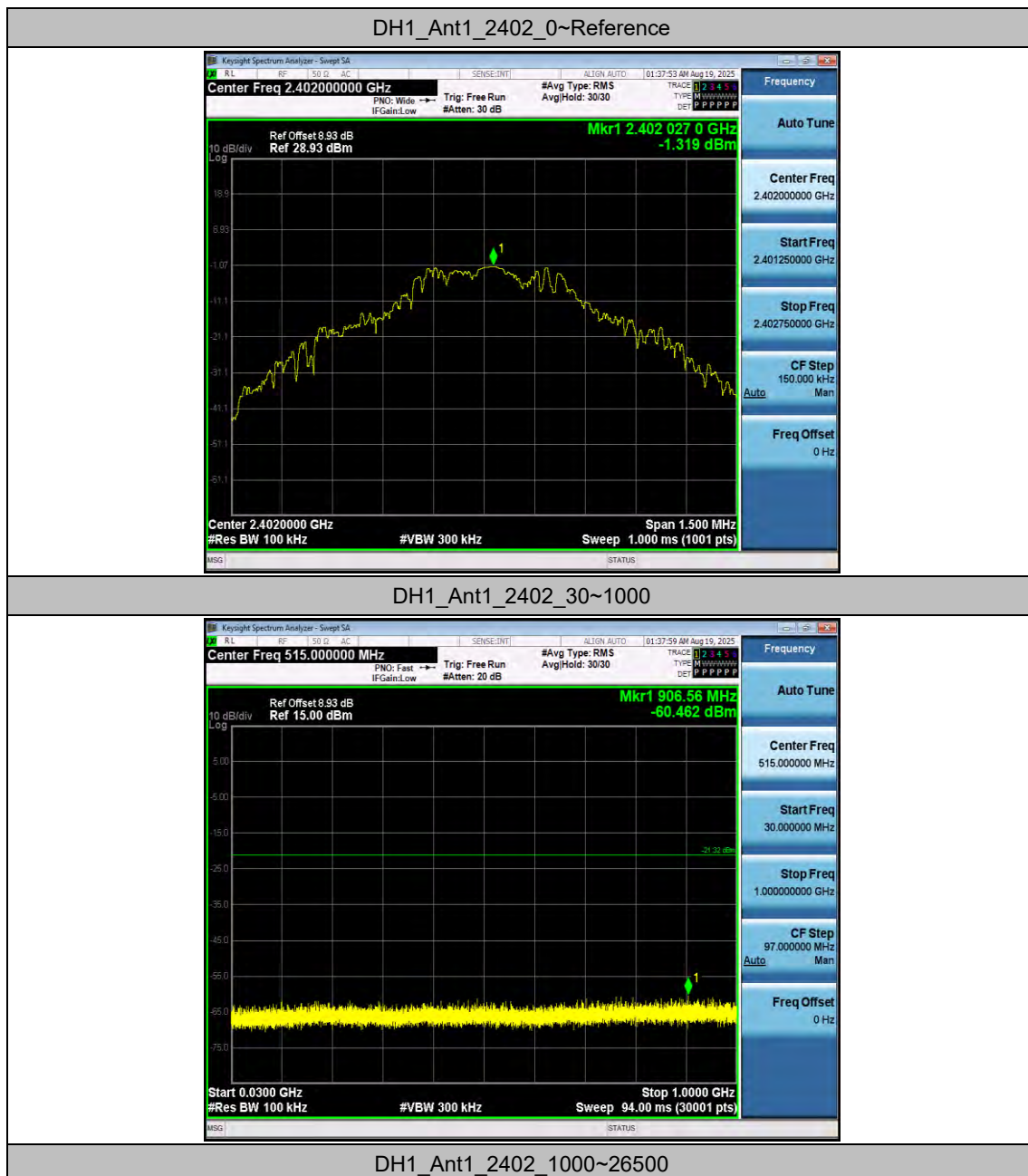


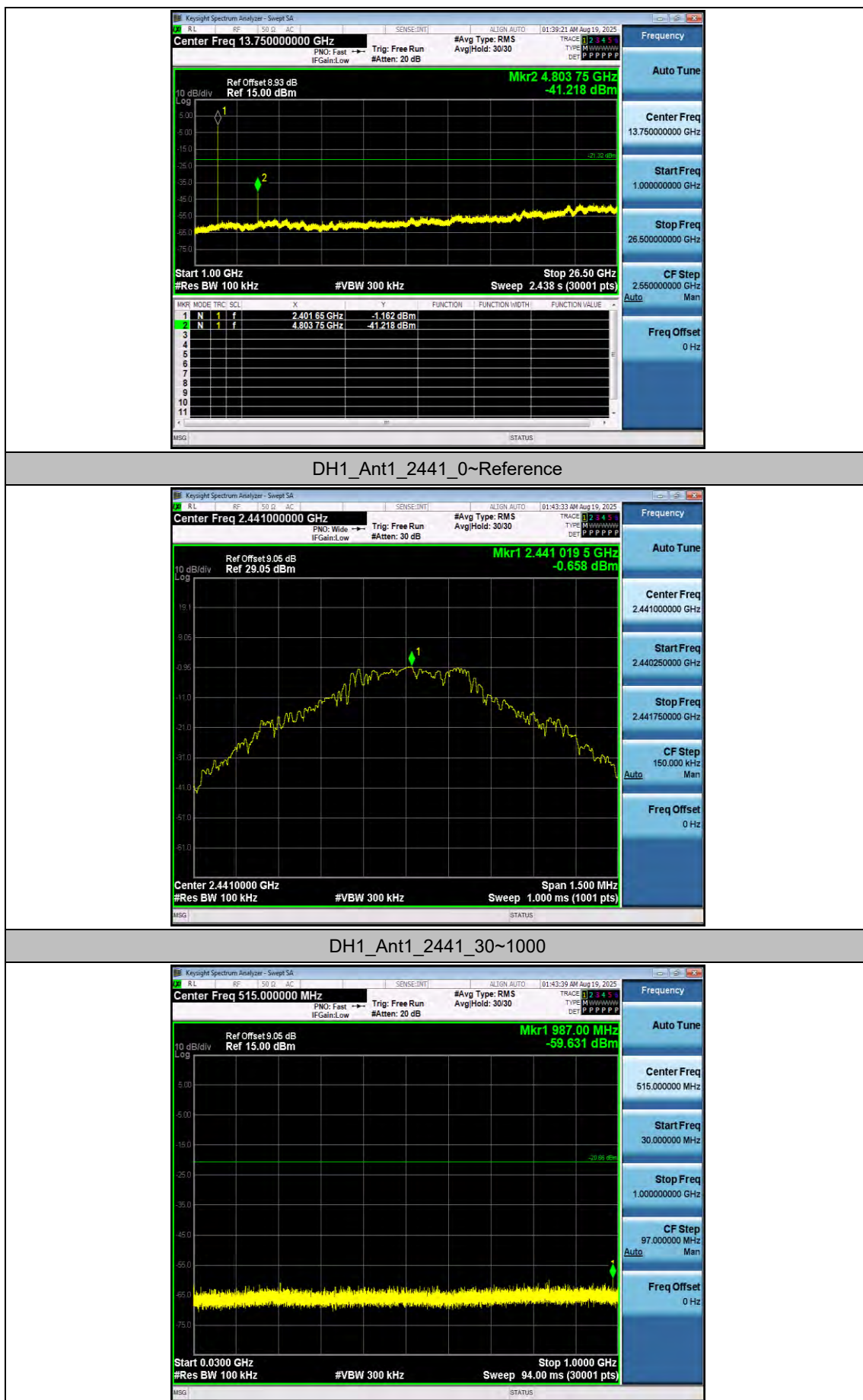
Appendix A.8: Conducted Spurious Emission

Test Result

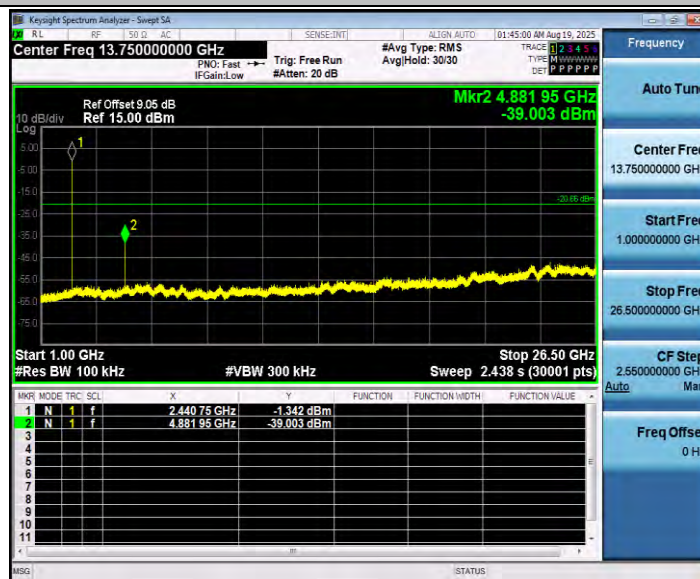
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-60.46	≤ -21.32	PASS
			1000~26500	-1.32	-41.22	≤ -21.32	PASS
		2441	Reference	-0.66	-0.66	---	PASS
			30~1000	-0.66	-59.63	≤ -20.66	PASS
			1000~26500	-0.66	-39	≤ -20.66	PASS
		2480	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-60.23	≤ -20.7	PASS
			1000~26500	-0.70	-41.67	≤ -20.7	PASS
2DH1	Ant1	2402	Reference	-1.50	-1.50	---	PASS
			30~1000	-1.50	-60.8	≤ -21.5	PASS
			1000~26500	-1.50	-40.71	≤ -21.5	PASS
		2441	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-60.43	≤ -20.51	PASS
			1000~26500	-0.51	-43.47	≤ -20.51	PASS
		2480	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-60.63	≤ -19.88	PASS
			1000~26500	0.12	-40.99	≤ -19.88	PASS
3DH1	Ant1	2402	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-61.09	≤ -22.25	PASS
			1000~26500	-2.25	-42.99	≤ -22.25	PASS
		2441	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-61.01	≤ -20.53	PASS
			1000~26500	-0.53	-41.75	≤ -20.53	PASS
		2480	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-60.74	≤ -20.25	PASS
			1000~26500	-0.25	-43.68	≤ -20.25	PASS

Test Graphs





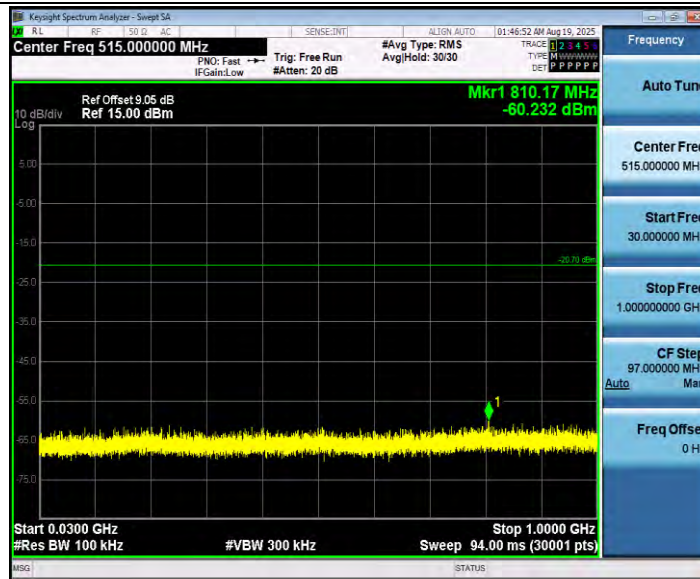
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

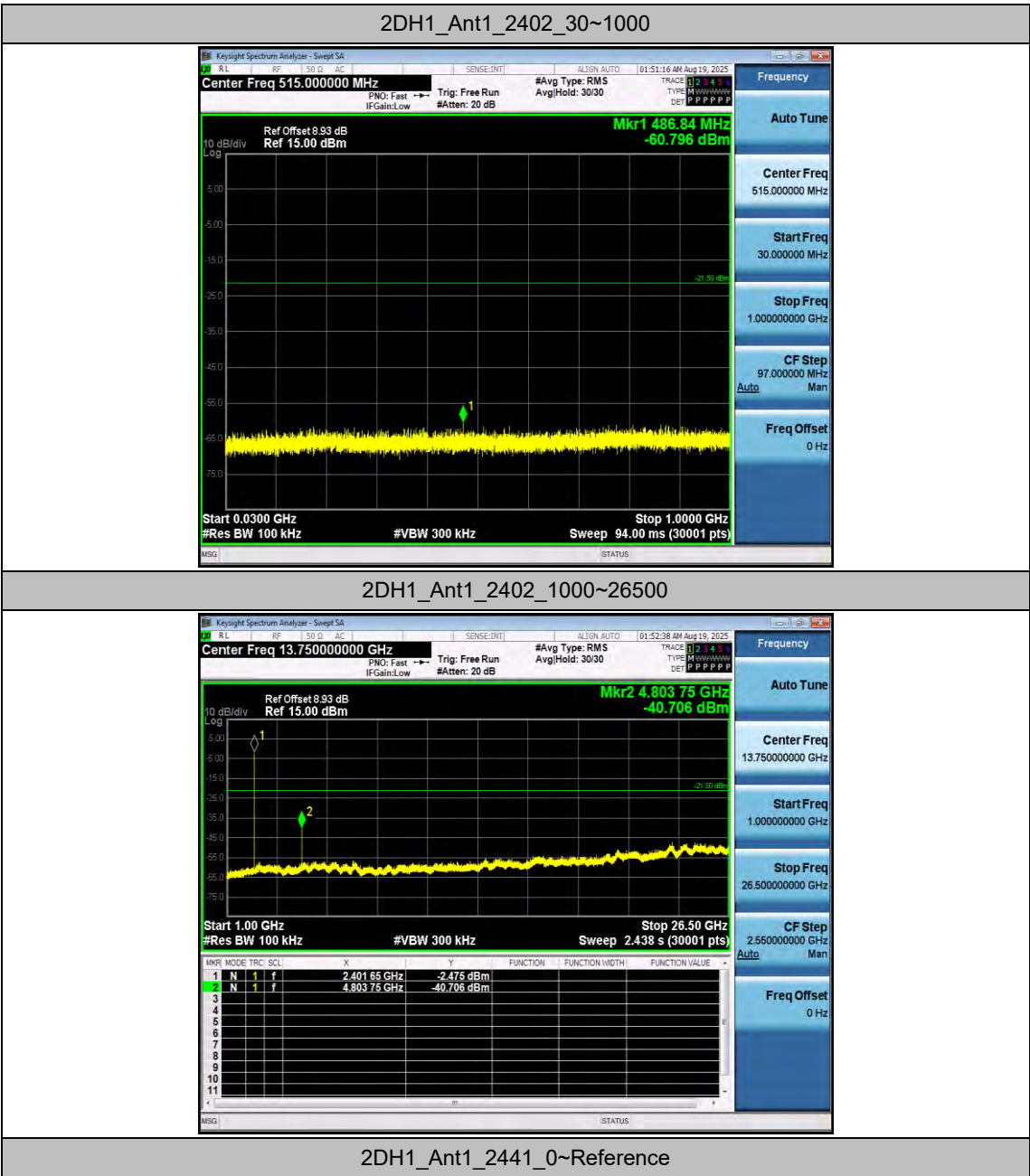


DH1_Ant1_2480_1000~26500



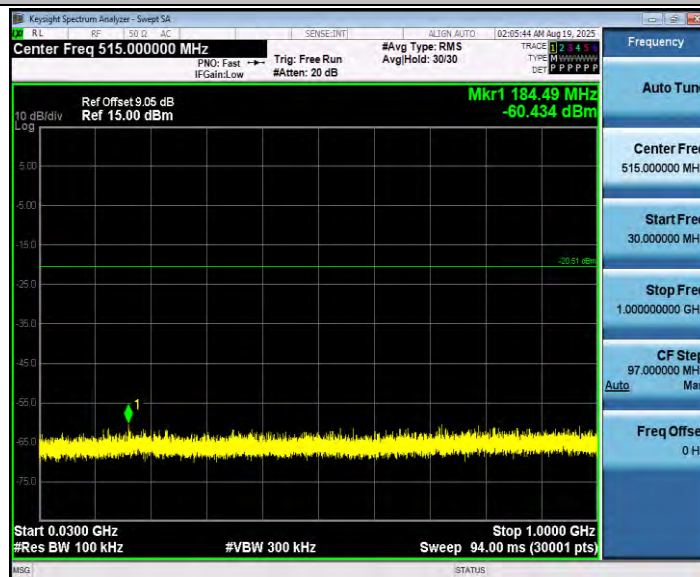
2DH1_Ant1_2402_0~Reference



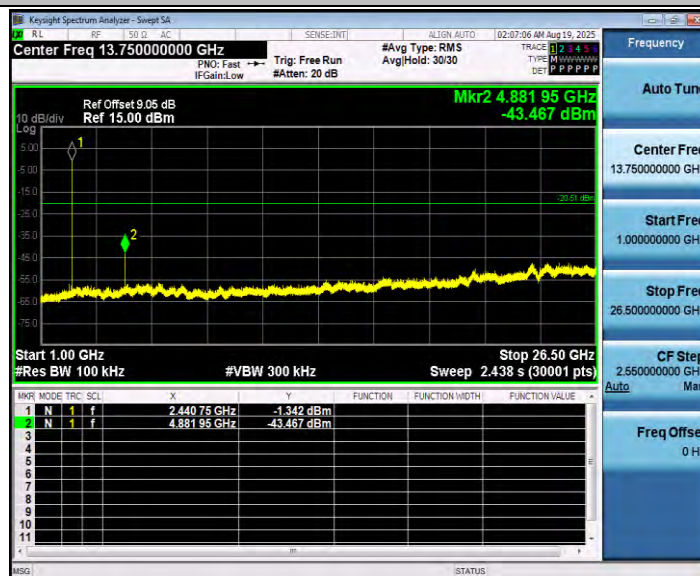




2DH1_Ant1_2441_30~1000



2DH1_Ant1_2441_1000~26500



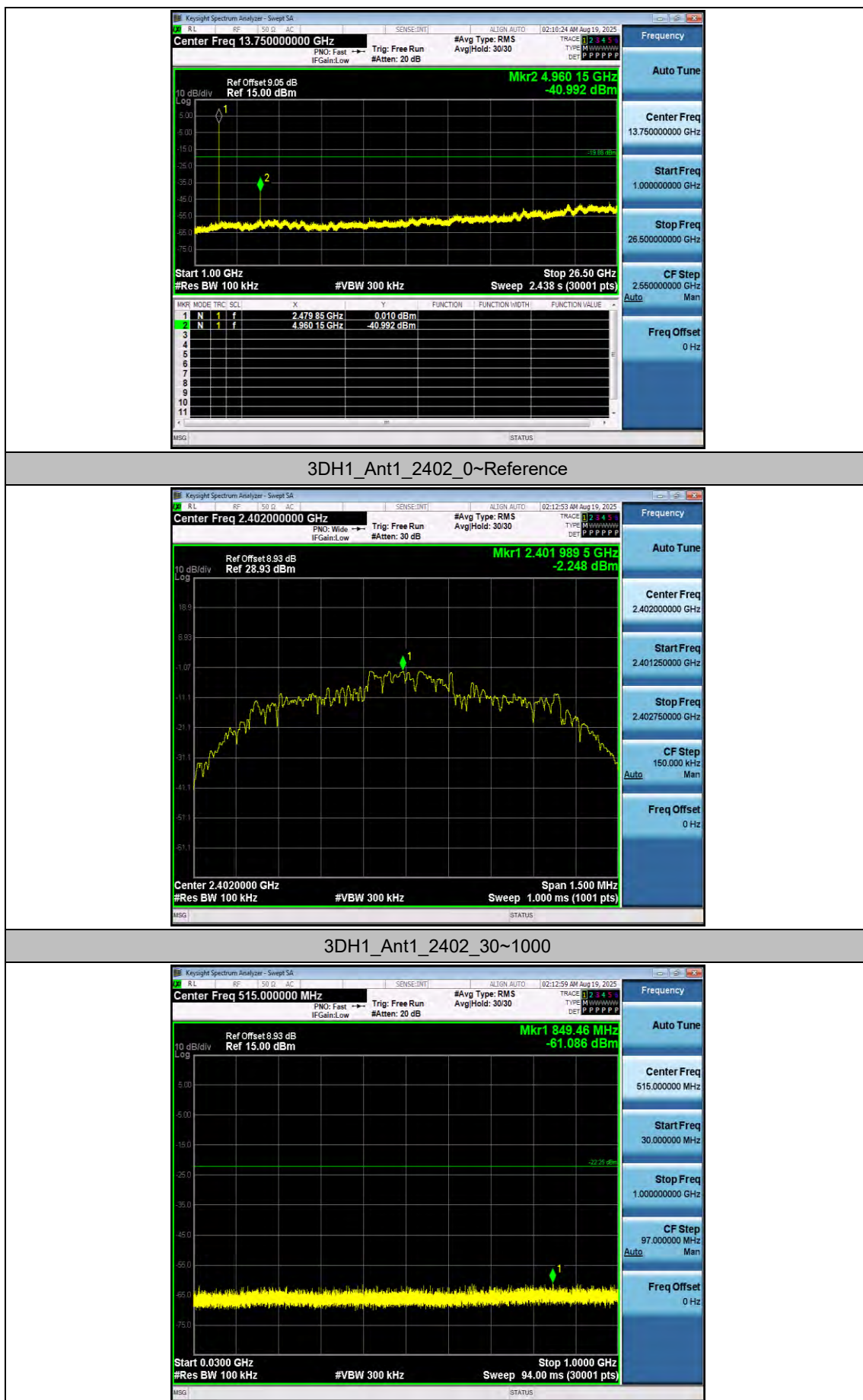
2DH1_Ant1_2480_0~Reference



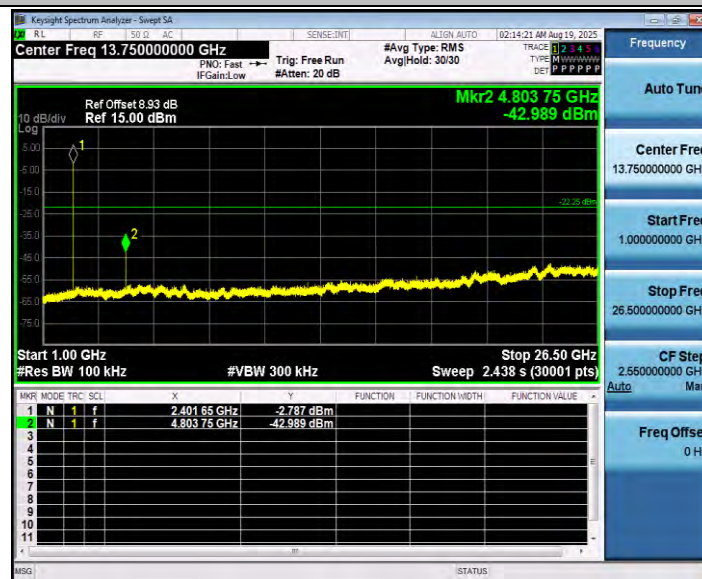
2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500



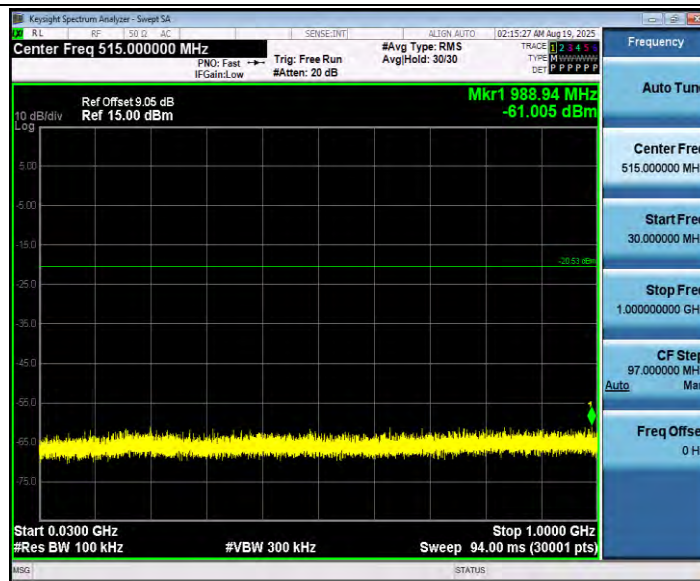
3DH1_Ant1_2402_1000~26500



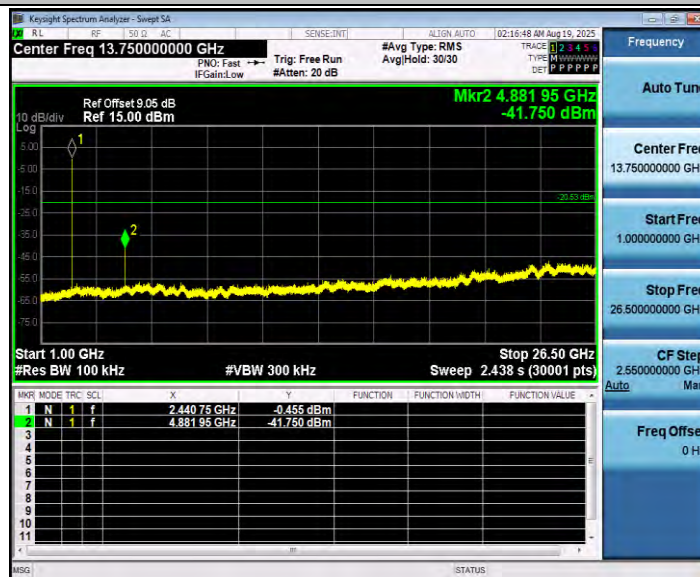
3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

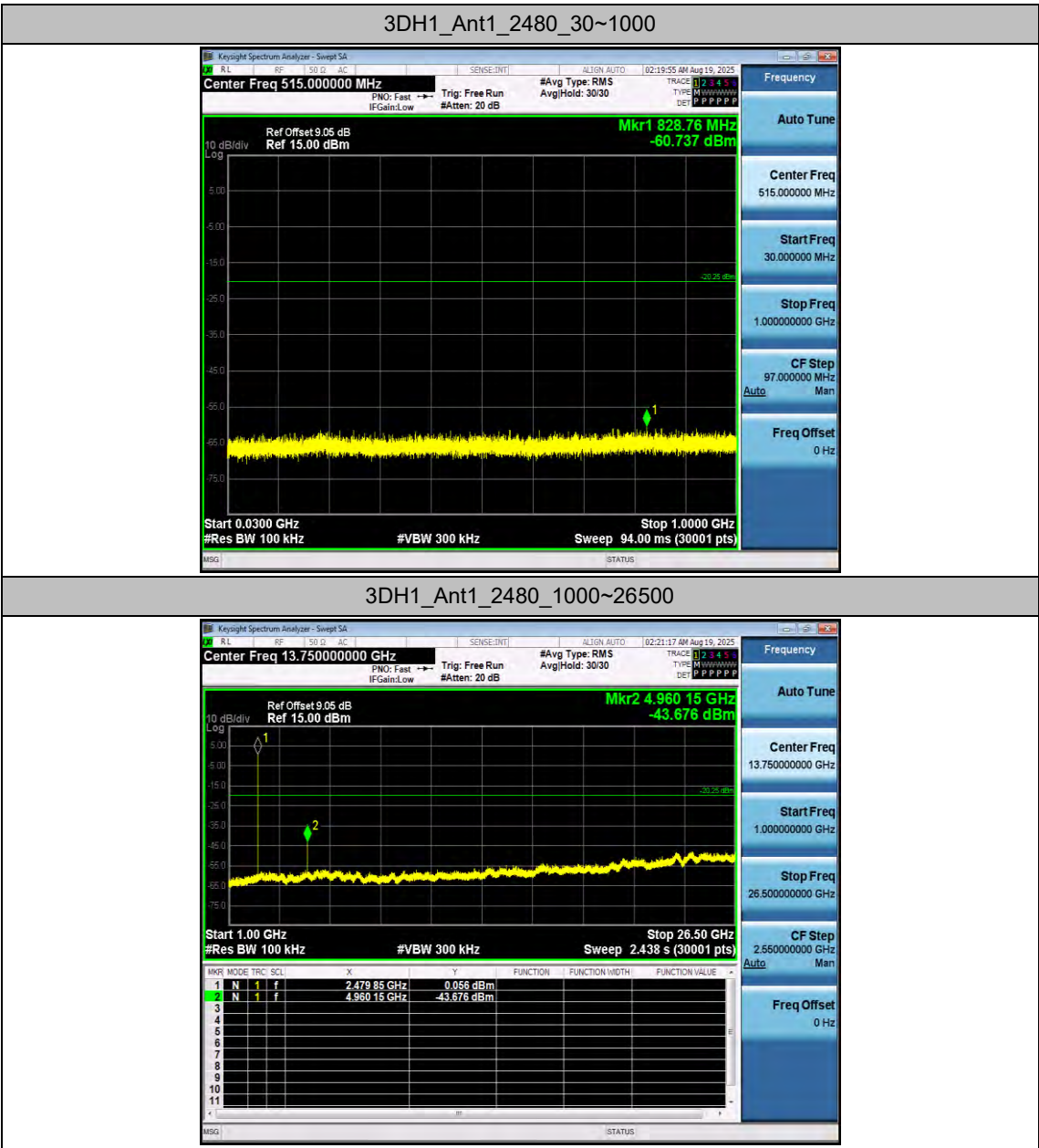


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

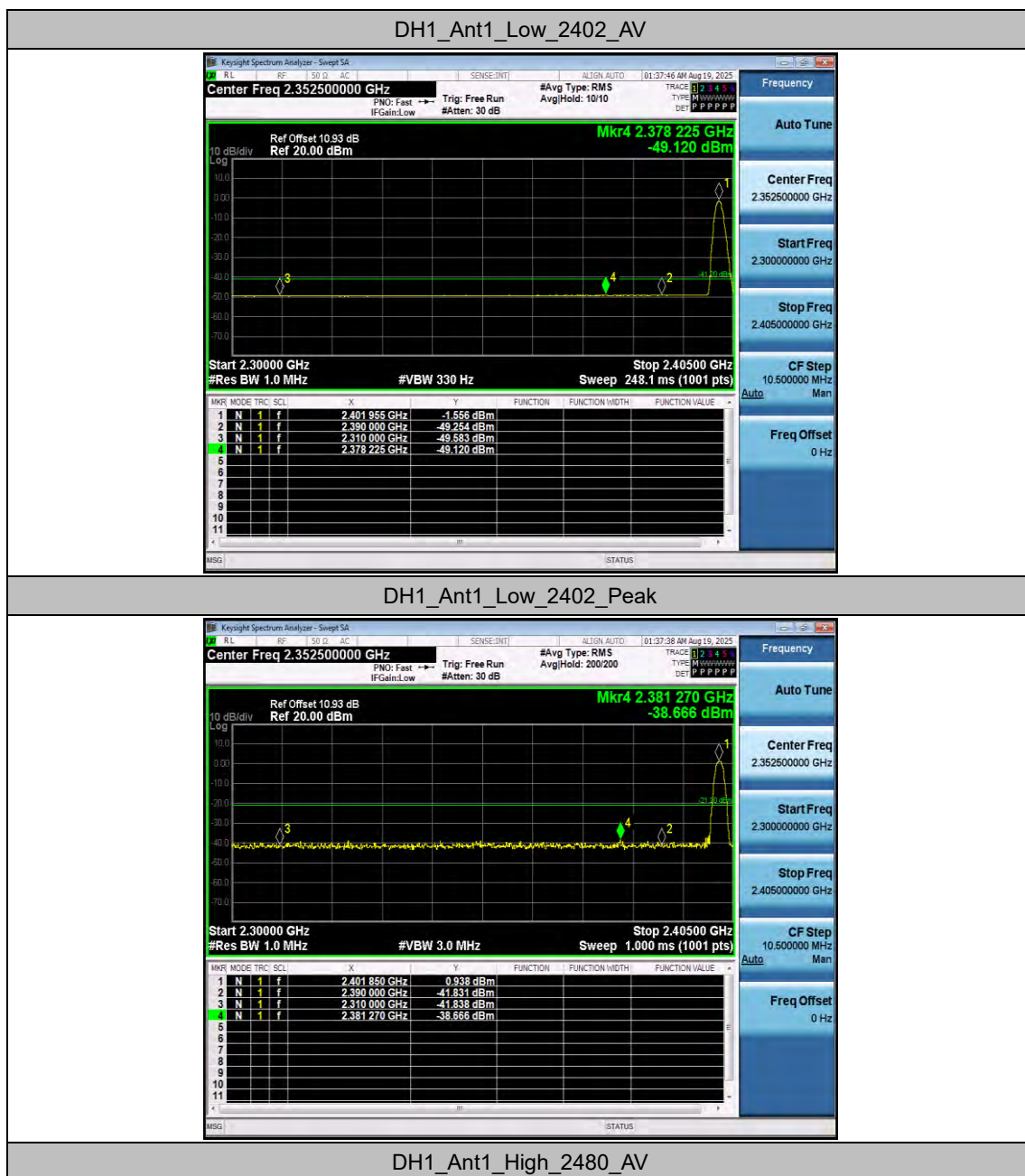
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.58	≤-41.20	45.62	≤54	PASS
				AV	2378.225	-49.12	≤-41.20	46.08	≤54	PASS
				AV	2390.000	-49.25	≤-41.20	45.95	≤54	PASS
				Peak	2310.000	-41.84	≤-21.20	53.36	≤74	PASS
				Peak	2381.270	-38.67	≤-21.20	56.53	≤74	PASS
				Peak	2390.000	-41.83	≤-21.20	53.37	≤74	PASS
		High	2480	AV	2483.500	-48.61	≤-41.20	46.59	≤54	PASS
				AV	2494.640	-48.5	≤-41.20	46.70	≤54	PASS
				AV	2500.000	-48.73	≤-41.20	46.47	≤54	PASS
				Peak	2483.500	-40.6	≤-21.20	54.60	≤74	PASS
				Peak	2498.560	-38.87	≤-21.20	56.33	≤74	PASS
				Peak	2500.000	-42.57	≤-21.20	52.63	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.5	≤-41.20	45.70	≤54	PASS
				AV	2378.855	-49.08	≤-41.20	46.12	≤54	PASS
				AV	2390.000	-49.18	≤-41.20	46.02	≤54	PASS
				Peak	2310.000	-42.87	≤-21.20	52.33	≤74	PASS
				Peak	2365.415	-38.99	≤-21.20	56.21	≤74	PASS
				Peak	2390.000	-41.27	≤-21.20	53.93	≤74	PASS
		High	2480	AV	2483.500	-48.49	≤-41.20	46.71	≤54	PASS
				AV	2496.880	-48.42	≤-41.20	46.78	≤54	PASS
				AV	2500.000	-48.48	≤-41.20	46.72	≤54	PASS
				Peak	2483.500	-39.97	≤-21.20	55.23	≤74	PASS
				Peak	2493.440	-38.92	≤-21.20	56.28	≤74	PASS
				Peak	2500.000	-41.5	≤-21.20	53.70	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.52	≤-41.20	45.68	≤54	PASS
				AV	2385.260	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2390.000	-49.28	≤-41.20	45.92	≤54	PASS
				Peak	2310.000	-41.79	≤-21.20	53.41	≤74	PASS
				Peak	2386.730	-39.2	≤-21.20	56.00	≤74	PASS
				Peak	2390.000	-42.15	≤-21.20	53.05	≤74	PASS
		High	2480	AV	2483.500	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2498.880	-48.44	≤-41.20	46.76	≤54	PASS
				AV	2500.000	-48.62	≤-41.20	46.58	≤54	PASS
				Peak	2483.500	-40.06	≤-21.20	55.14	≤74	PASS
				Peak	2498.000	-38.05	≤-21.20	57.15	≤74	PASS

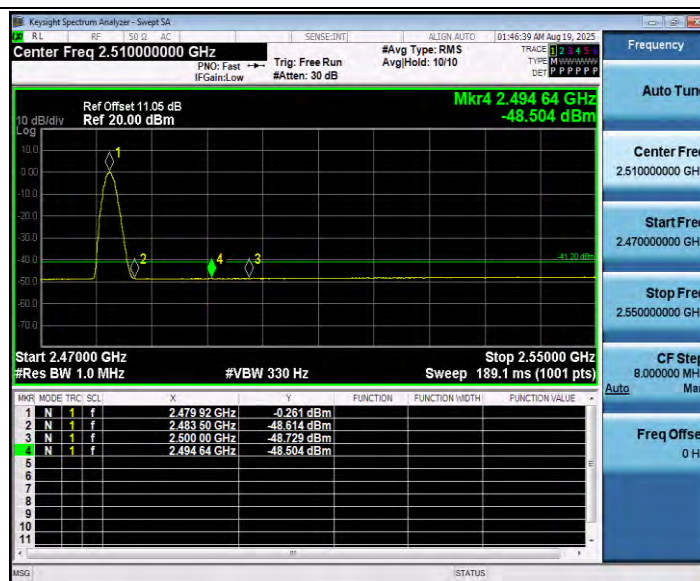
				Peak	2500.000	-41.66	≤ -21.20	53.54	≤ 74	PASS
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Note:

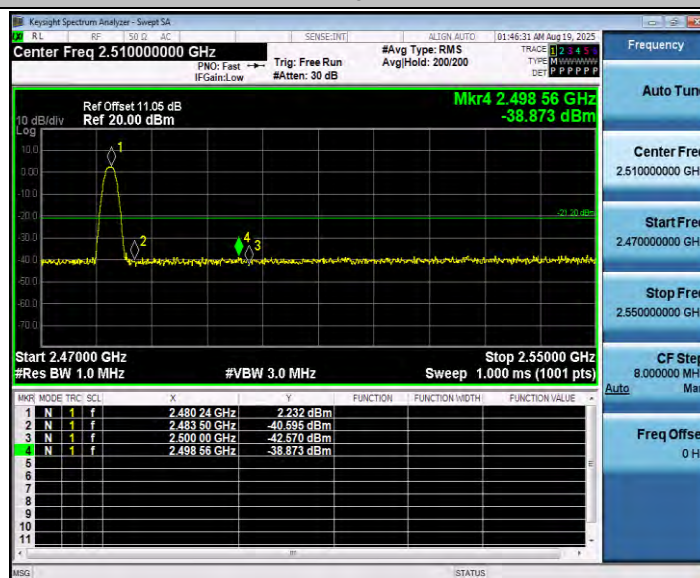
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

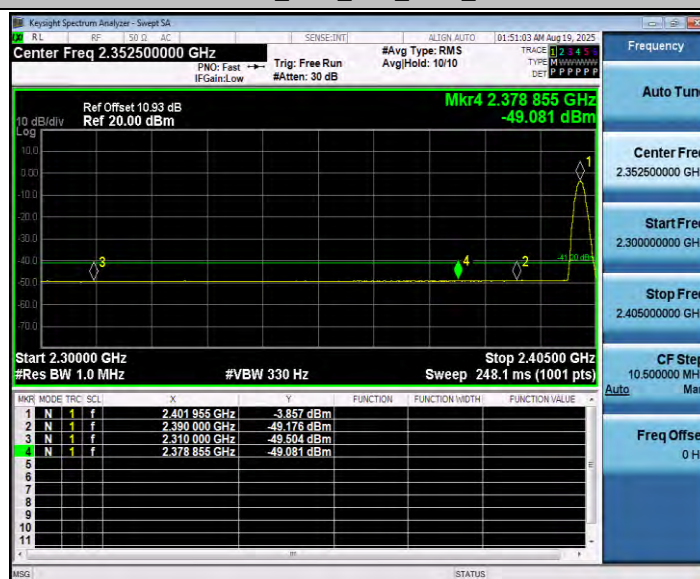




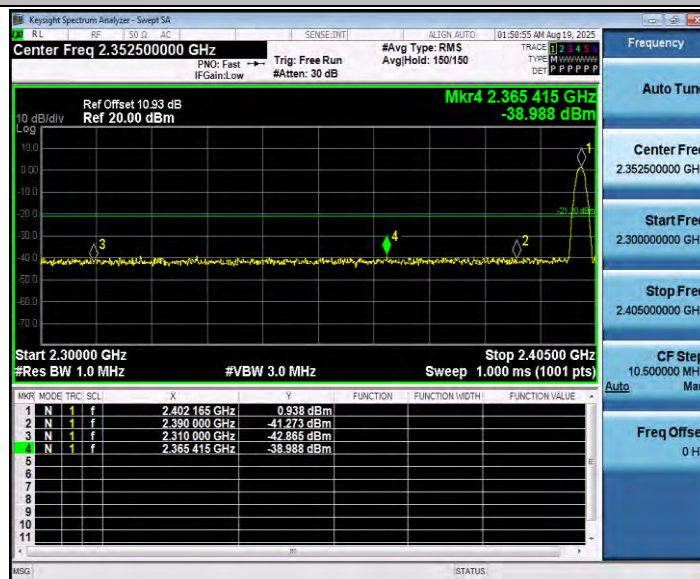
DH1_Ant1_High_2480_Peak



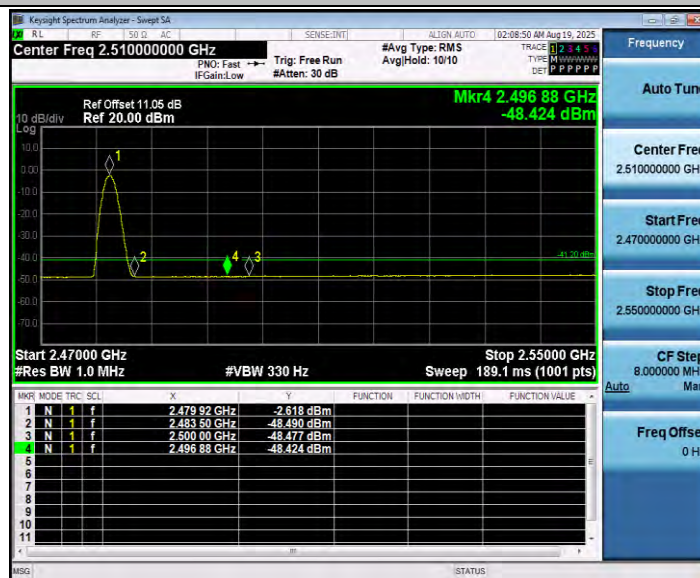
2DH1_Ant1_Low_2402_AV



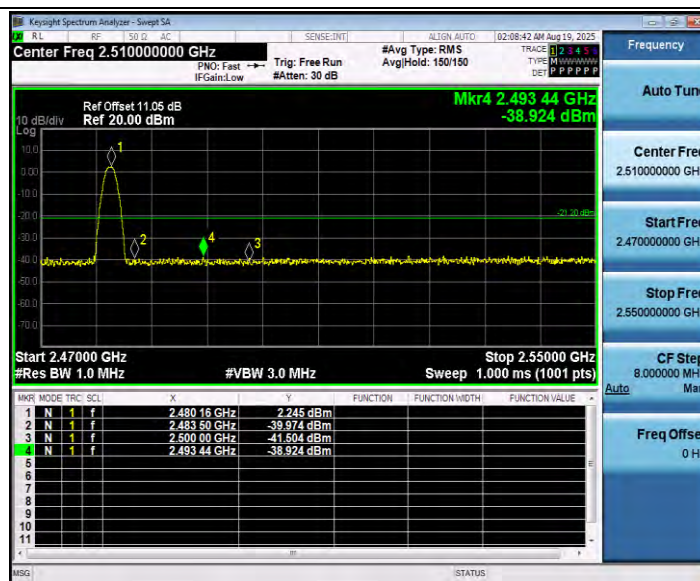
2DH1_Ant1_Low_2402_Peak



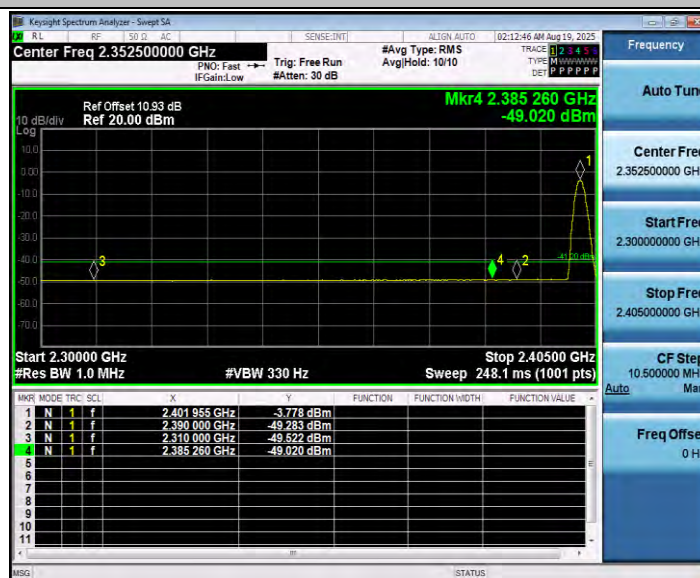
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

