

Appendix Test Data

Report No.:	18220WC20038901	Test Sample No.:	1-2-2
Start Test Date:	2022.2.28	Finish Test Date:	2022.3.3
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	55.6 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.529	2402.471	---	PASS
		2441	0.954	2440.529	2441.483	---	PASS
		2480	0.942	2479.532	2480.474	---	PASS
2DH5	Ant1	2402	1.326	2401.331	2402.657	---	PASS
		2441	1.326	2440.328	2441.654	---	PASS
		2480	1.263	2479.361	2480.624	---	PASS
3DH5	Ant1	2402	1.269	2401.349	2402.618	---	PASS
		2441	1.260	2440.358	2441.618	---	PASS
		2480	1.311	2479.340	2480.651	---	PASS

Test Graphs

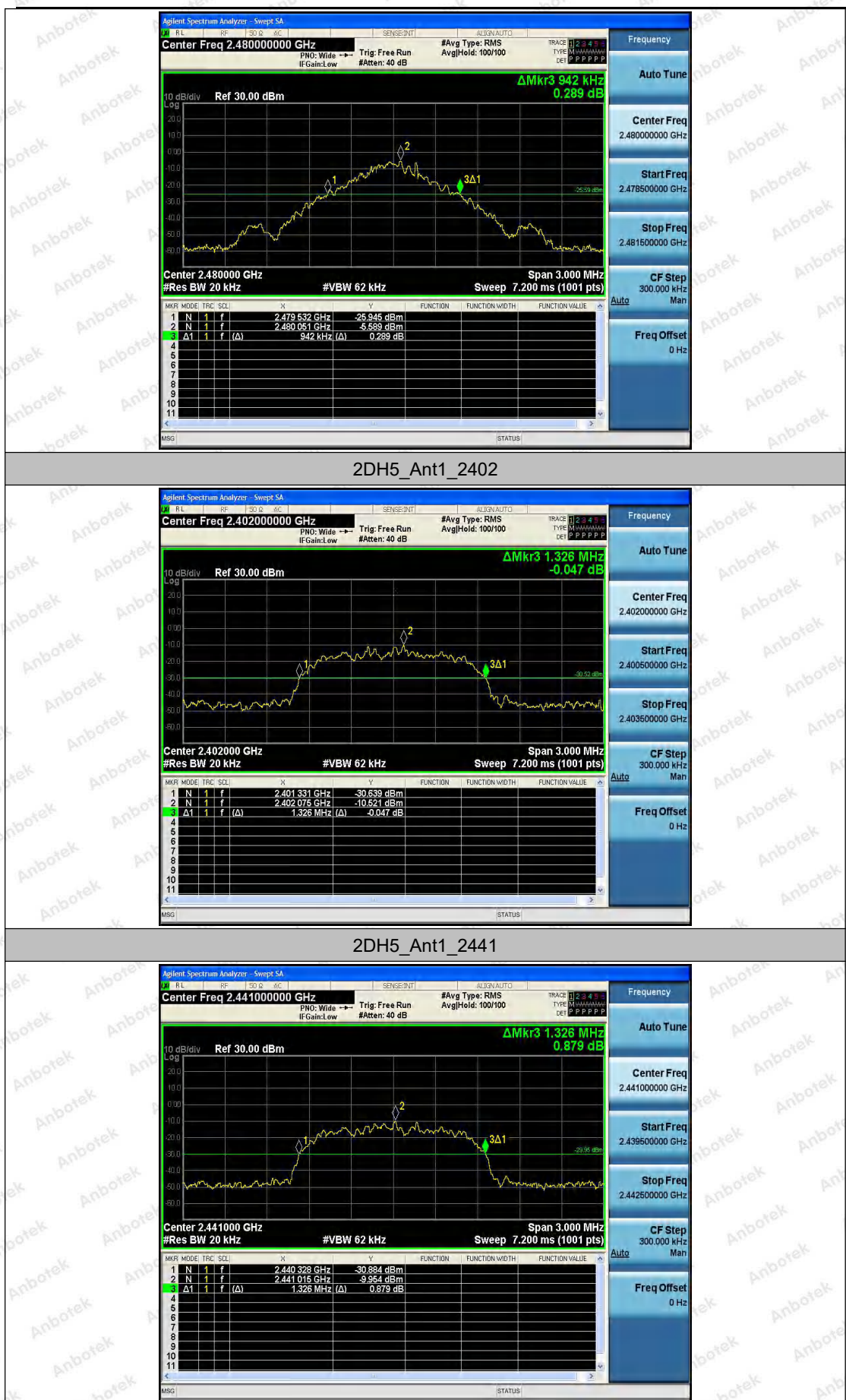
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89002	2401.549	2402.439	---	PASS
		2441	0.89361	2440.548	2441.442	---	PASS
		2480	0.88718	2479.551	2480.439	---	PASS
2DH5	Ant1	2402	1.1930	2401.397	2402.590	---	PASS
		2441	1.1885	2440.399	2441.588	---	PASS
		2480	1.1800	2479.403	2480.583	---	PASS
3DH5	Ant1	2402	1.2067	2401.383	2402.589	---	PASS
		2441	1.2012	2440.386	2441.588	---	PASS
		2480	1.2021	2479.386	2480.588	---	PASS

Test Graphs



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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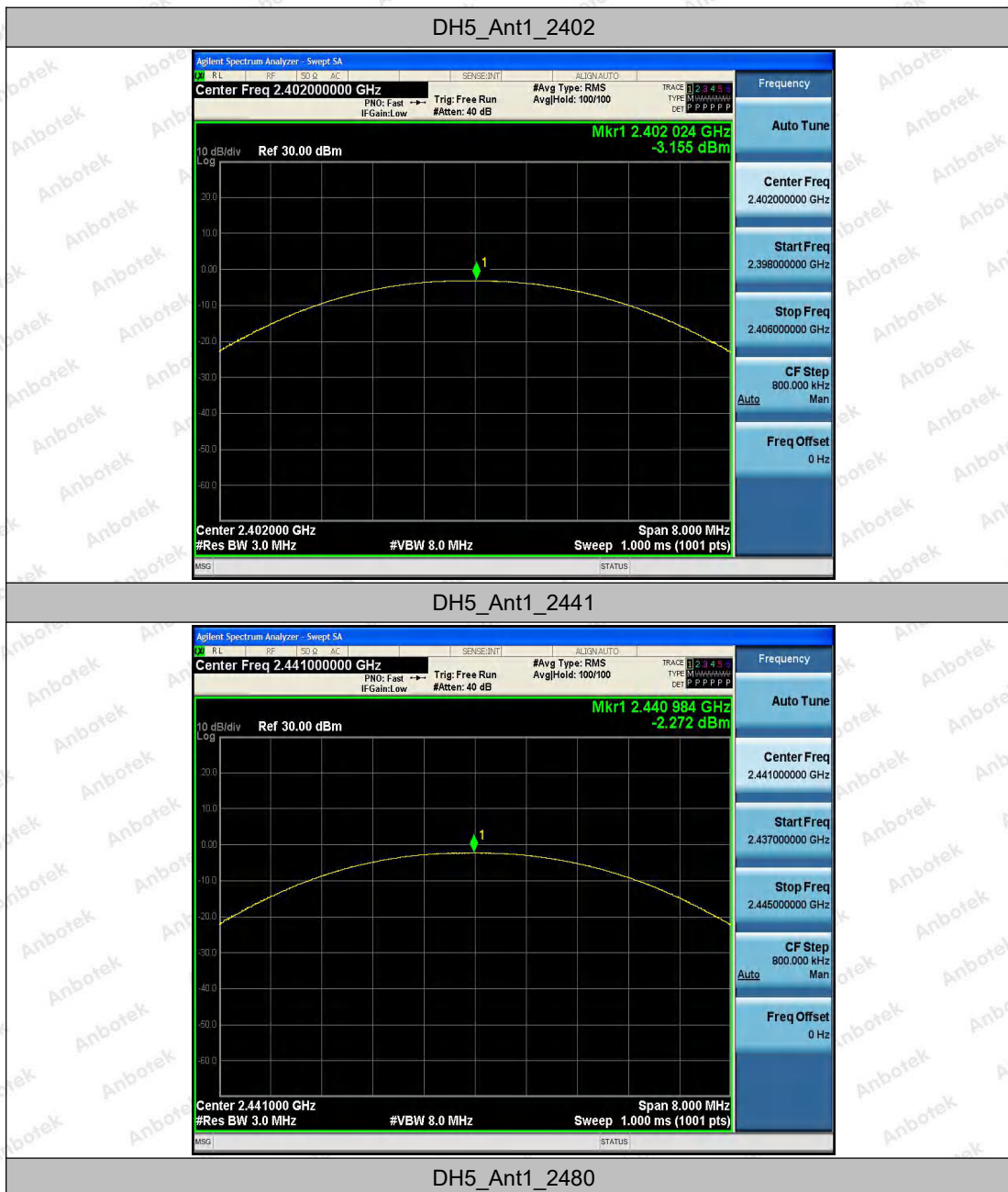
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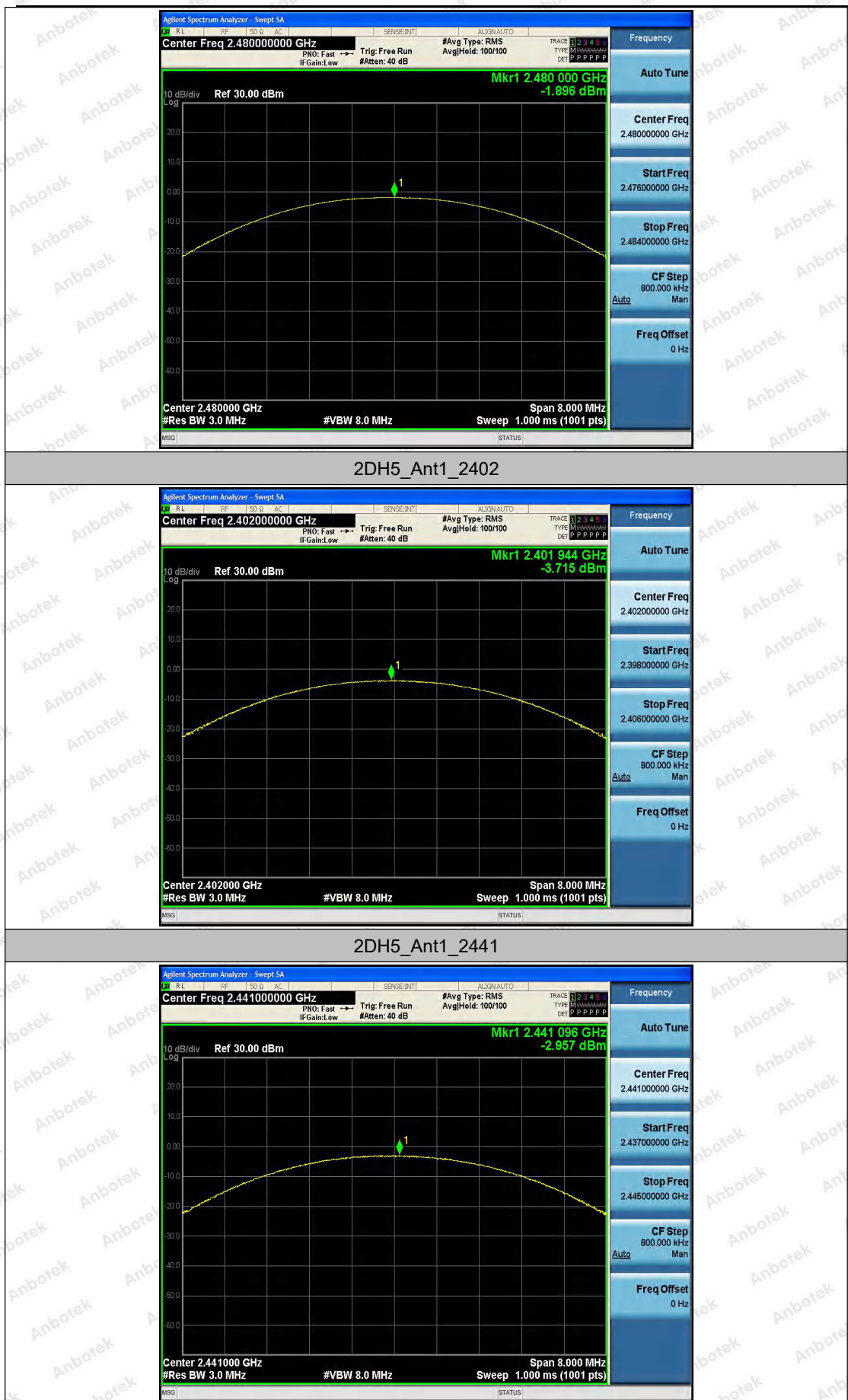
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-3.16	≤20.97	PASS
		2441	-2.27	≤20.97	PASS
		2480	-1.9	≤20.97	PASS
2DH5	Ant1	2402	-3.72	≤20.97	PASS
		2441	-2.96	≤20.97	PASS
		2480	-2.81	≤20.97	PASS
3DH5	Ant1	2402	-3.57	≤20.97	PASS
		2441	-2.76	≤20.97	PASS
		2480	-2.47	≤20.97	PASS

Test Graphs



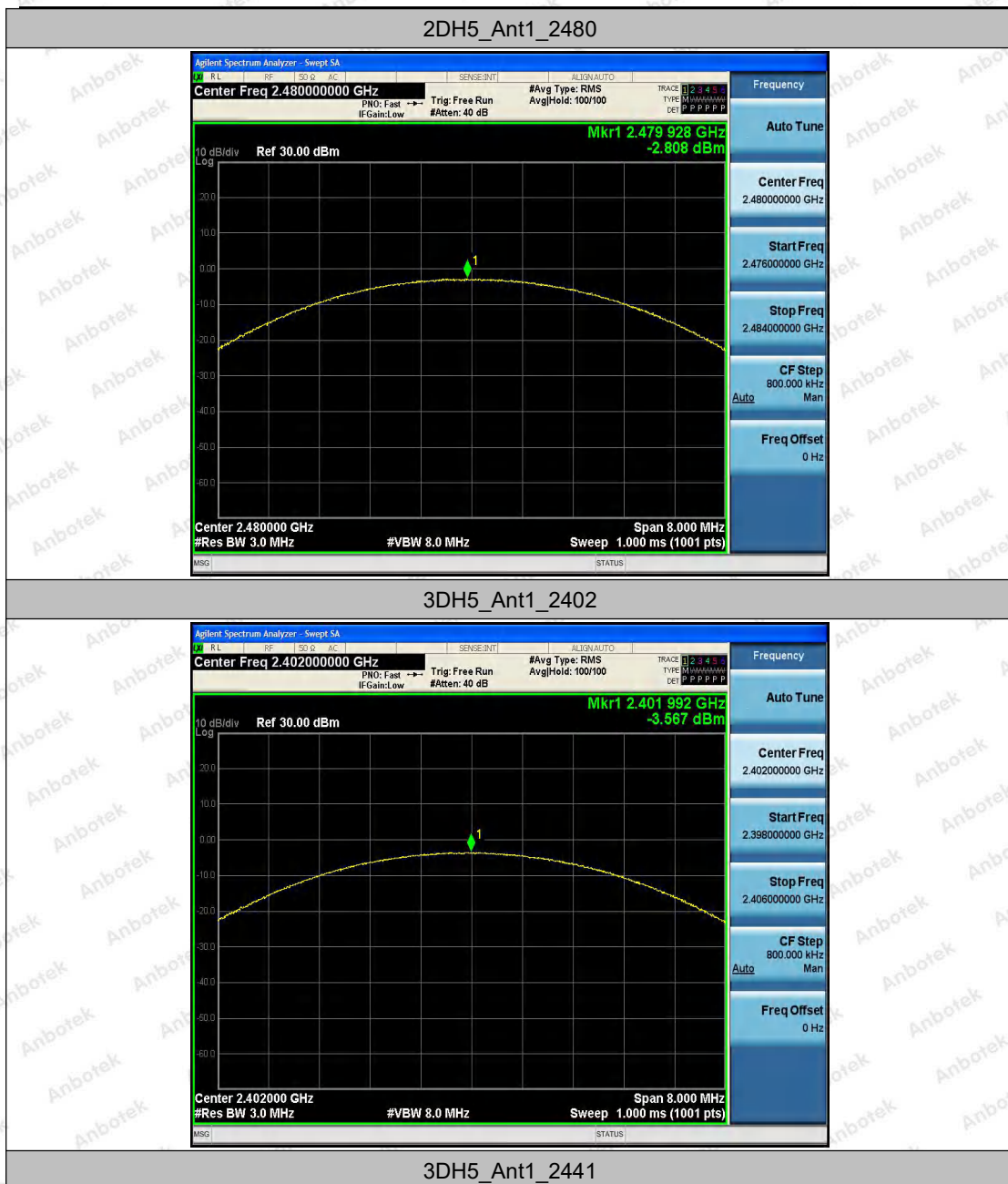


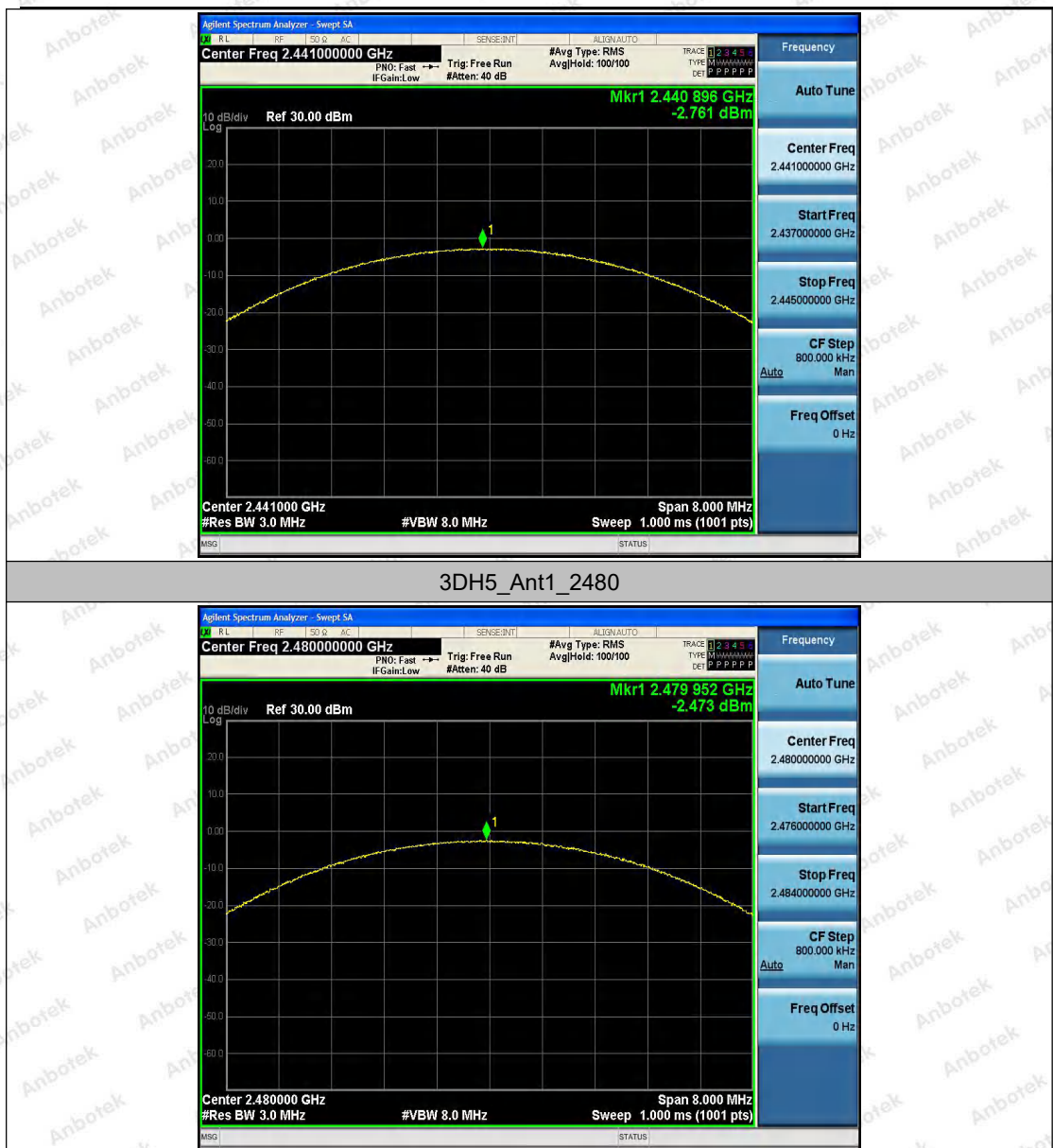
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.164	≥ 0.954	PASS
2DH5	Ant1	Hop	0.918	≥ 0.884	PASS
3DH5	Ant1	Hop	0.888	≥ 0.874	PASS

Test Graphs



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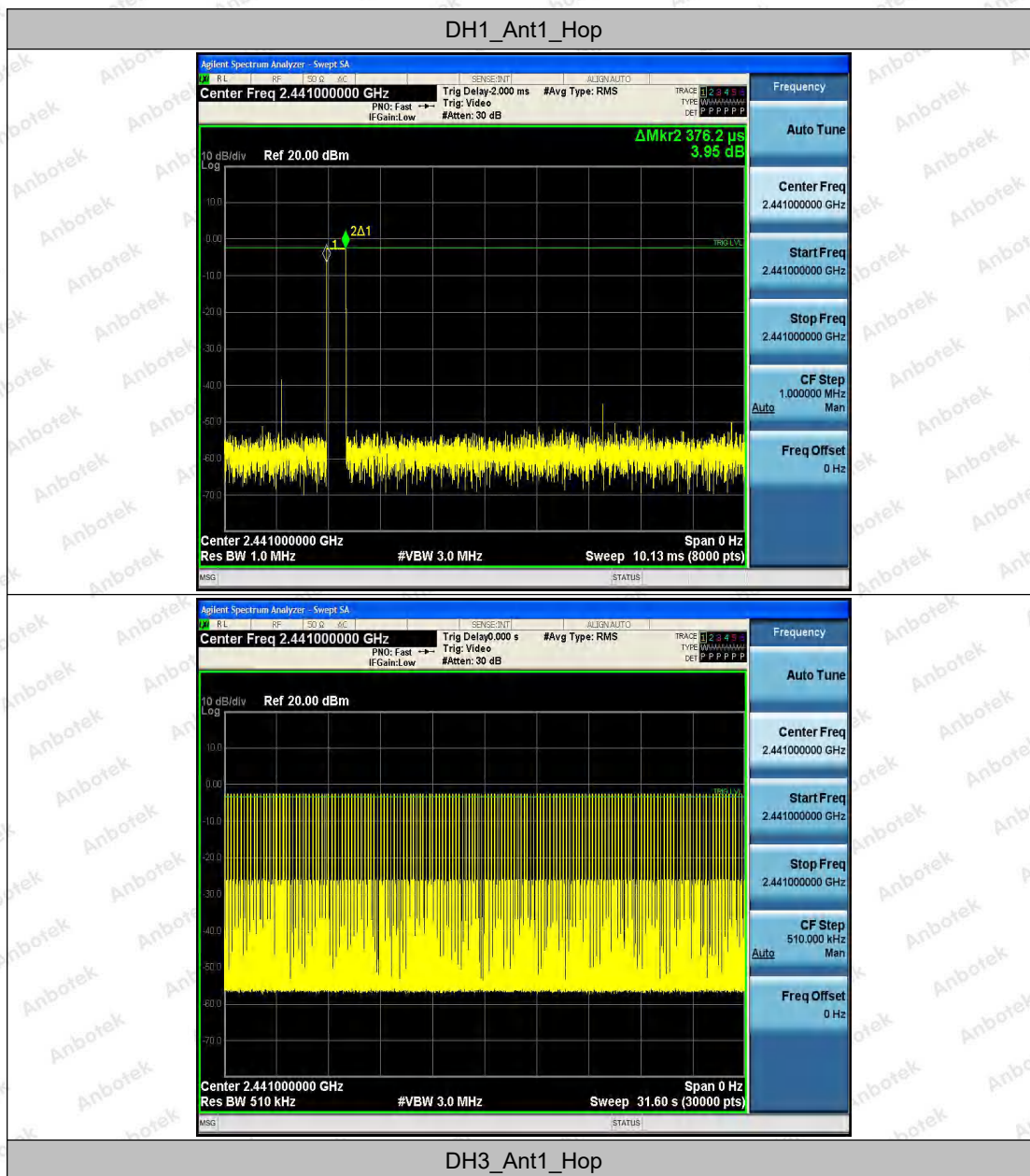
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	313	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	114	0.328	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.39	313	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	159	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS

Test Graphs



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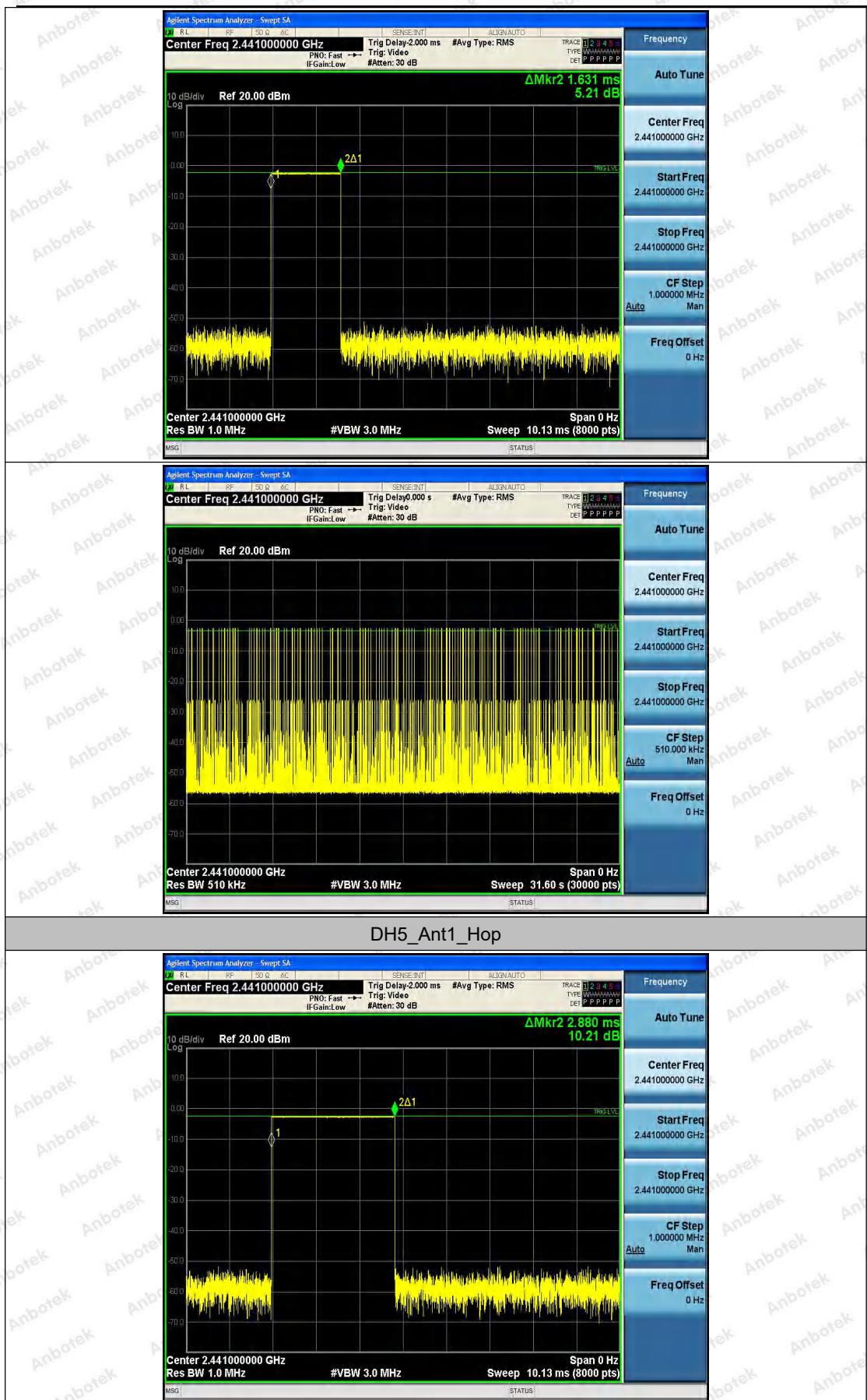
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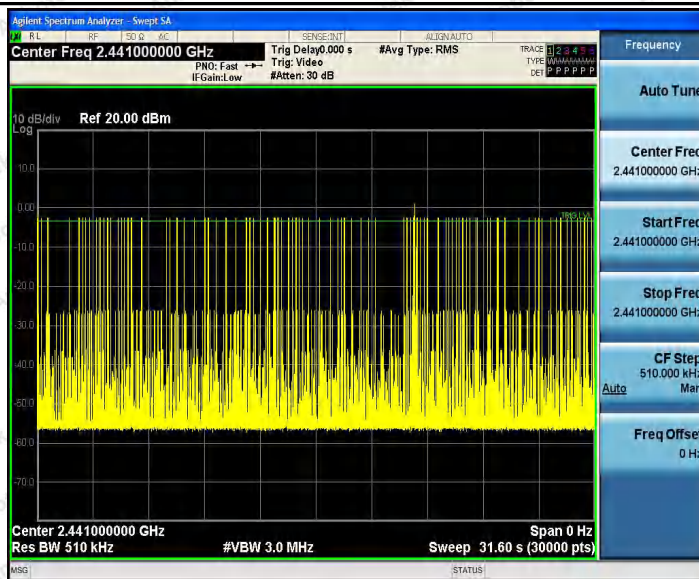
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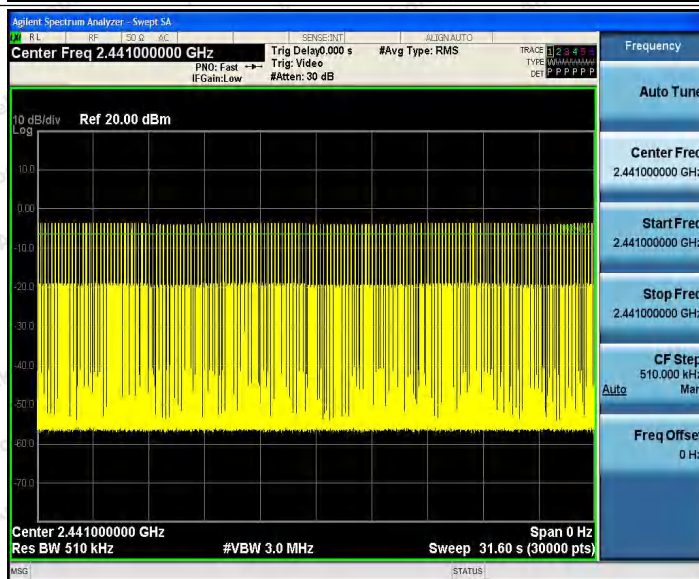
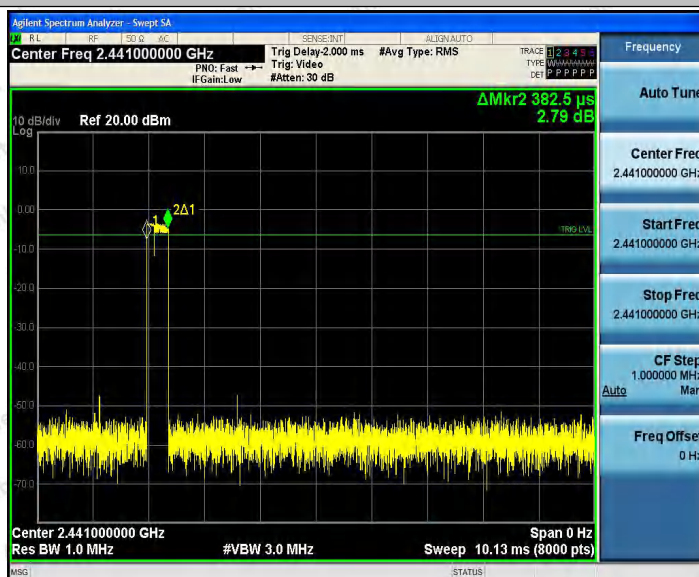
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DH5_Ant1_Hop



2DH1_Ant1_Hop



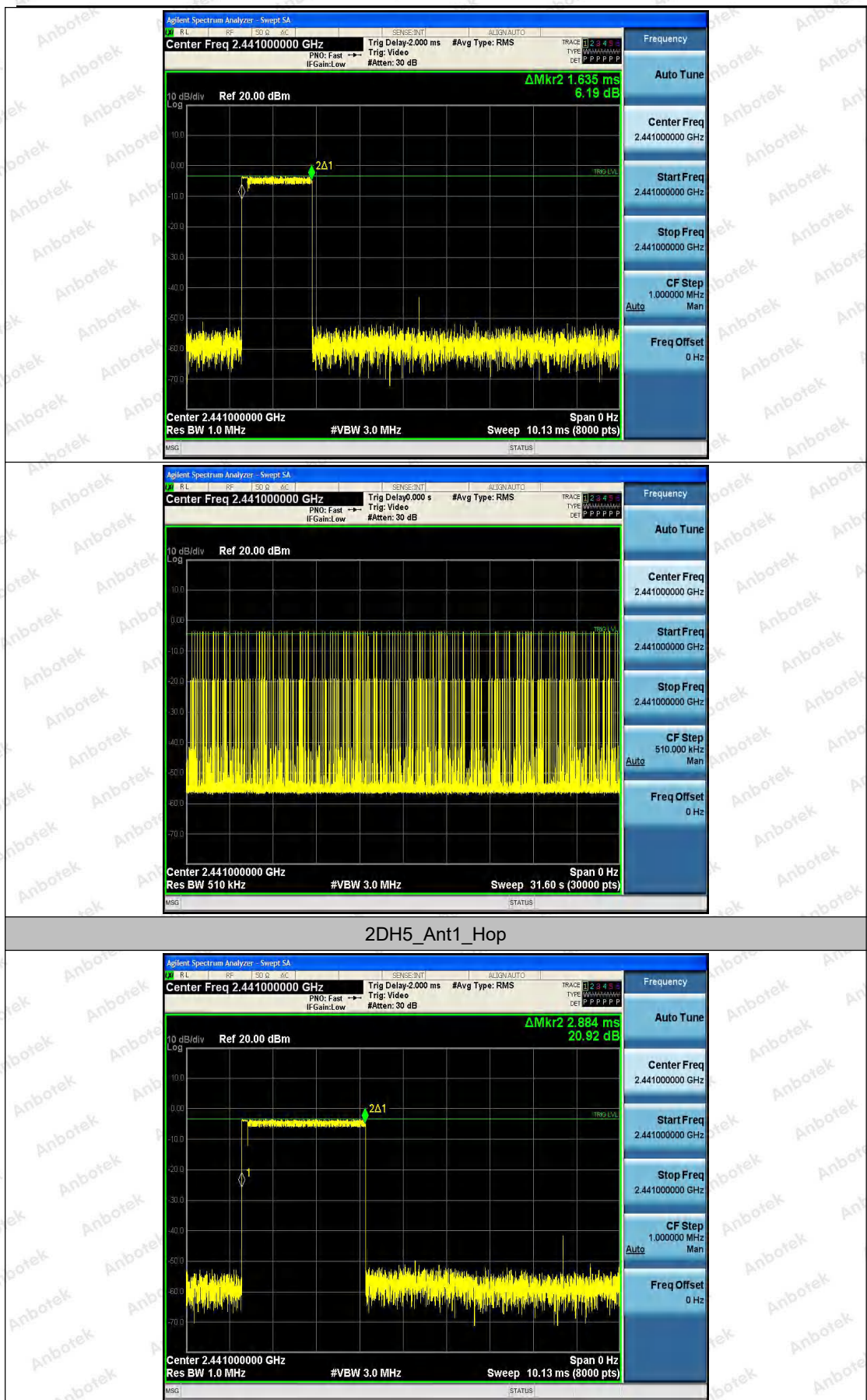
2DH3_Ant1_Hop

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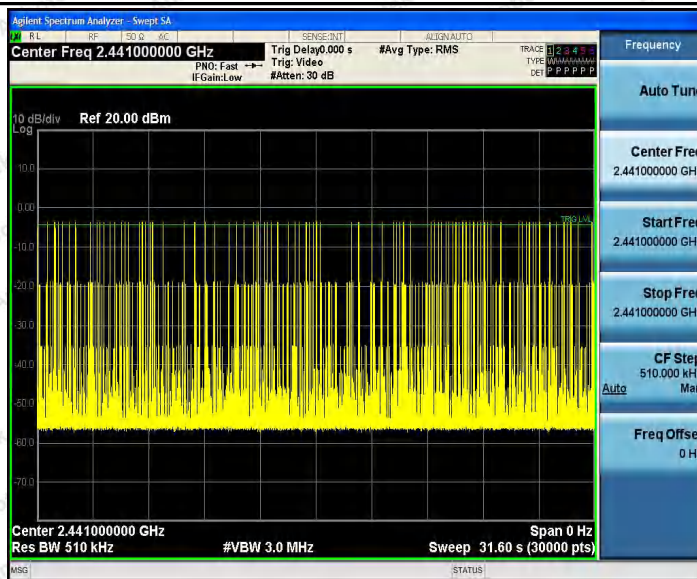


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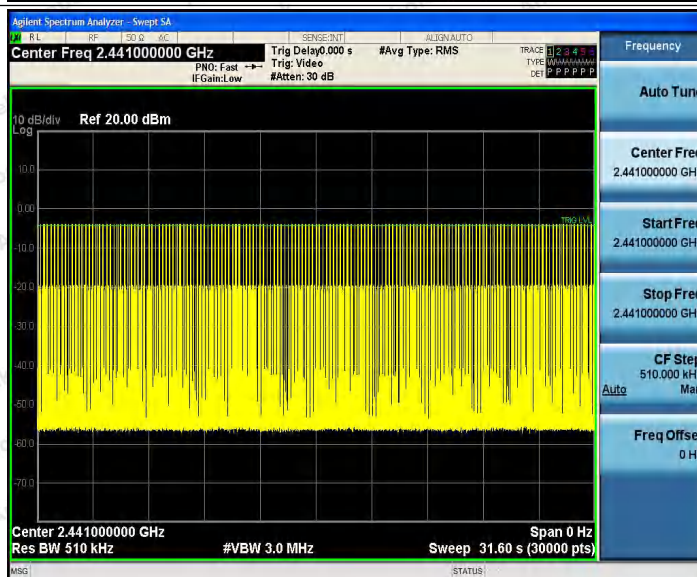
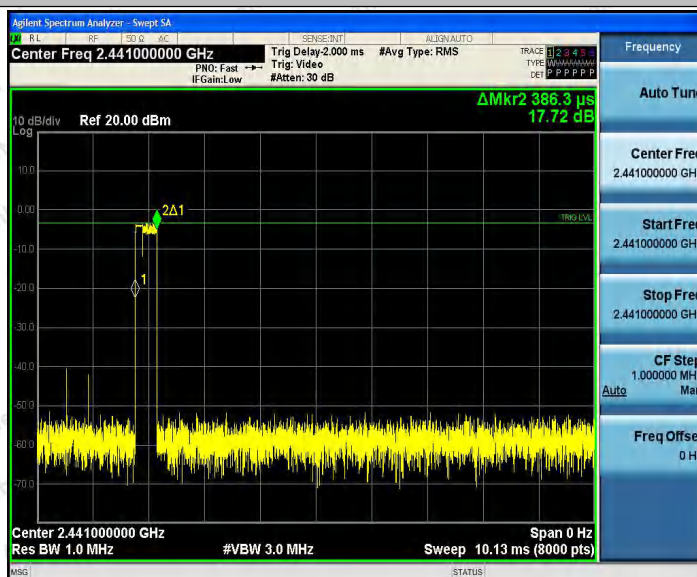
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3DH1_Ant1_Hop



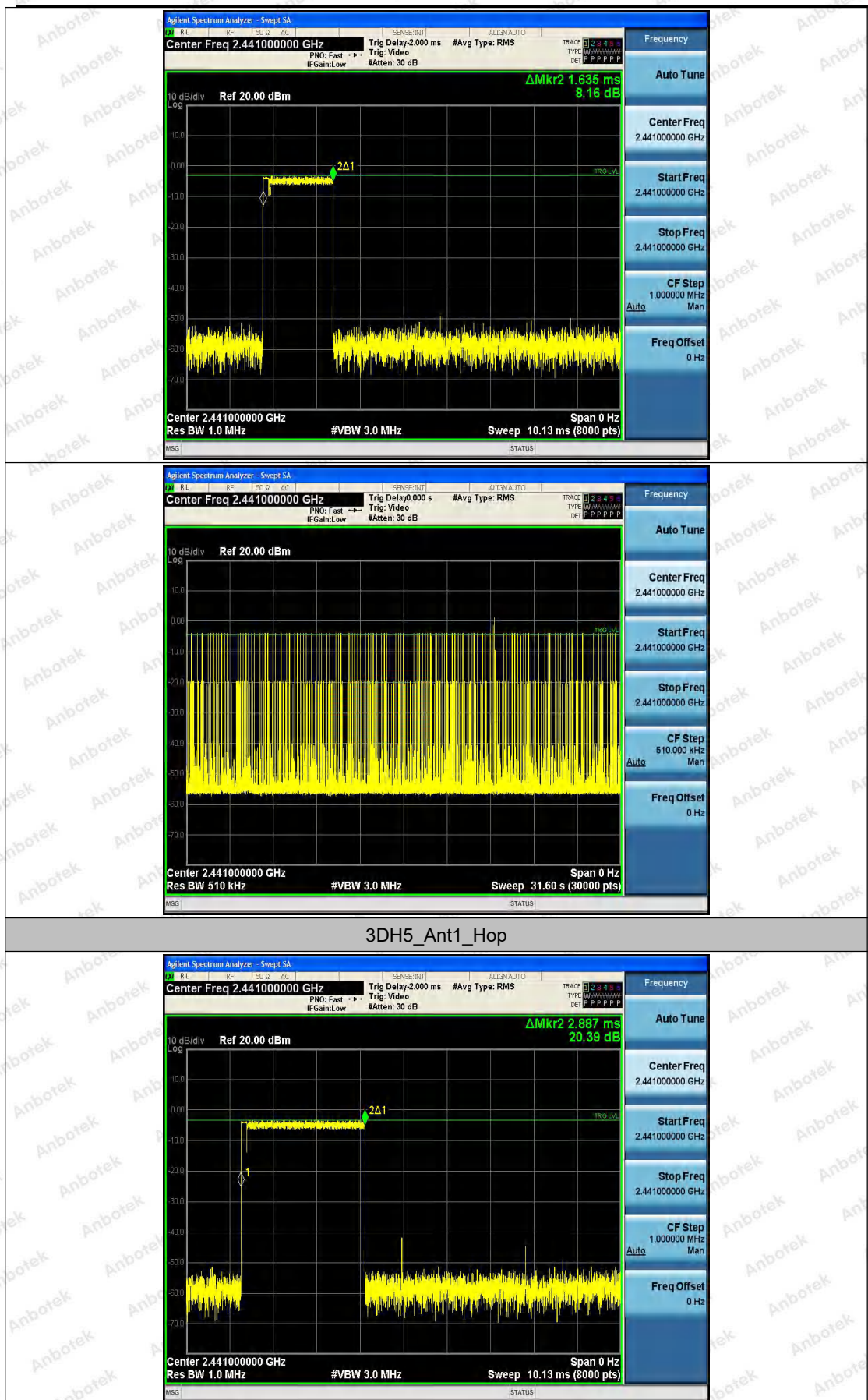
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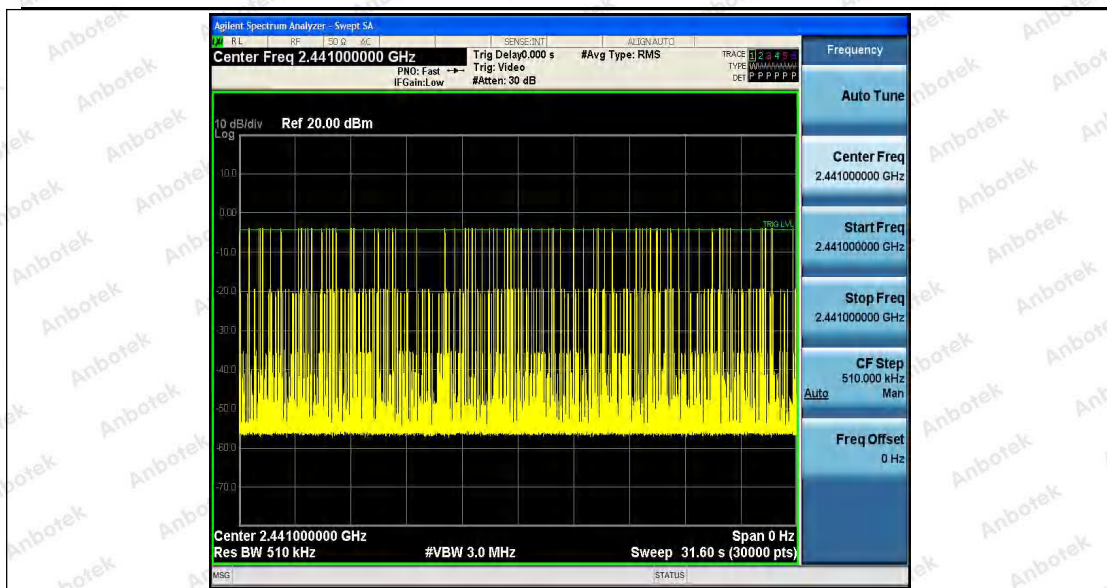
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3DH5_Ant1_Hop



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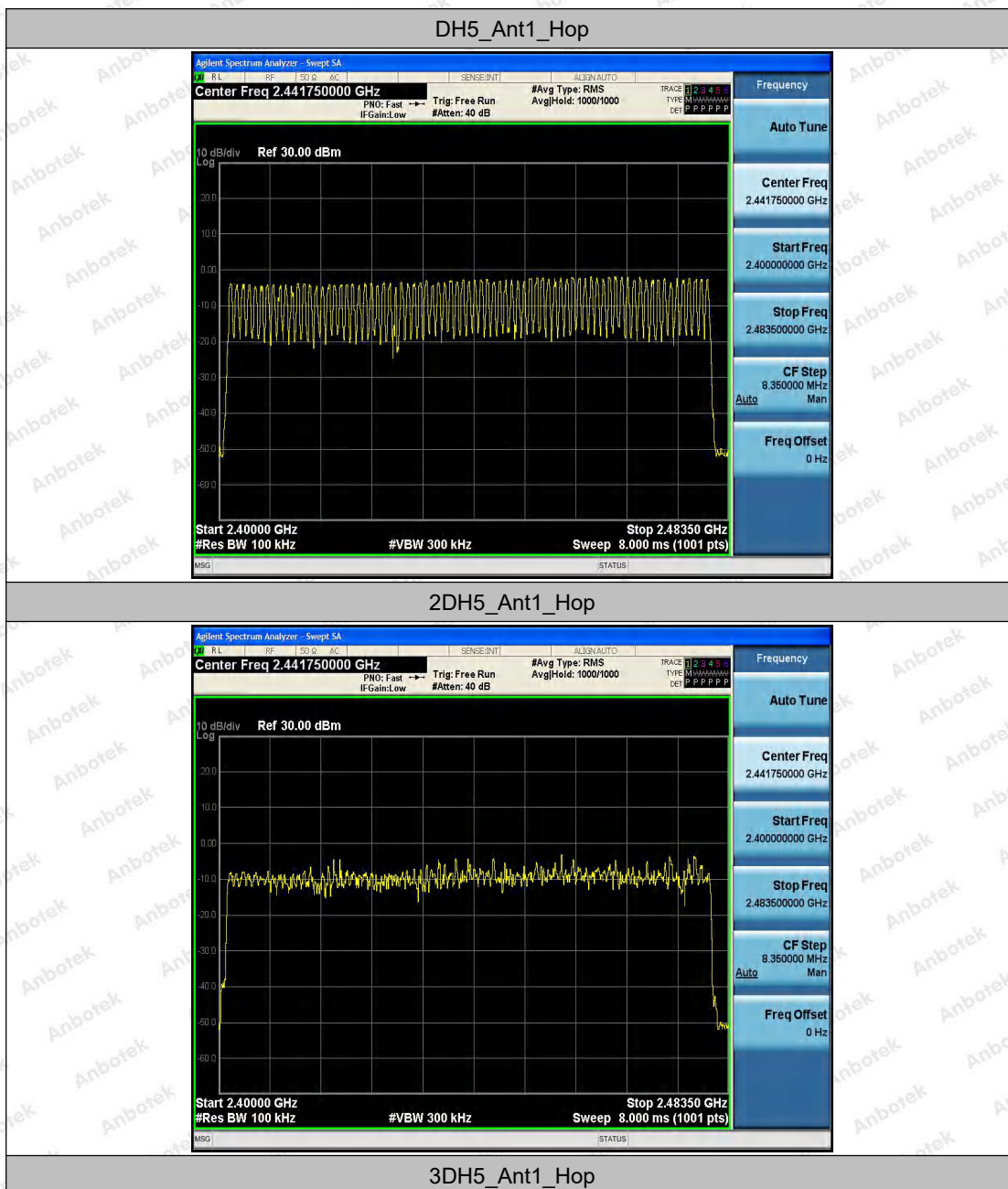
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Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



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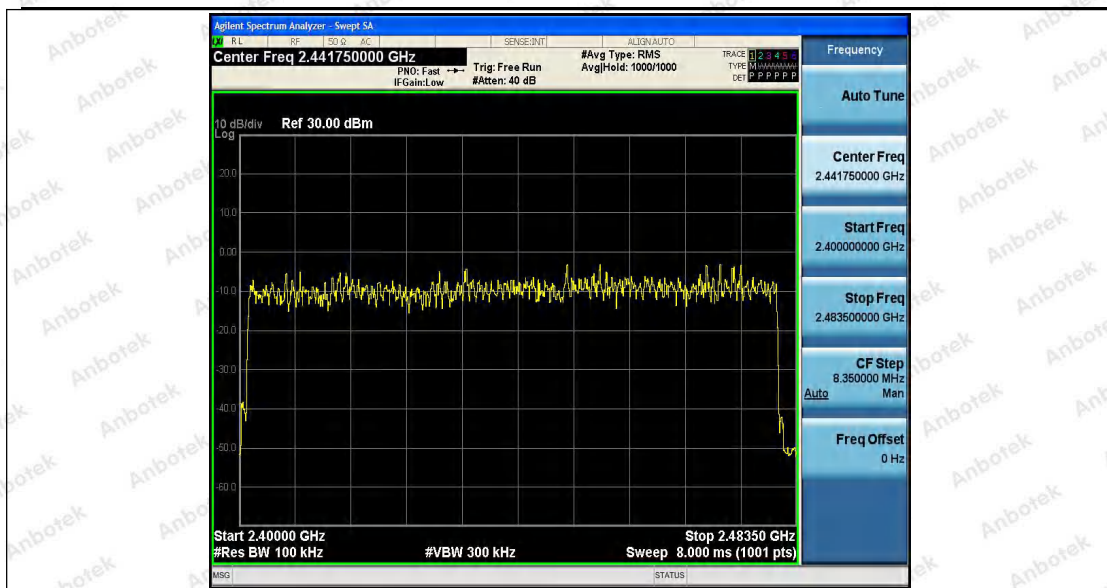
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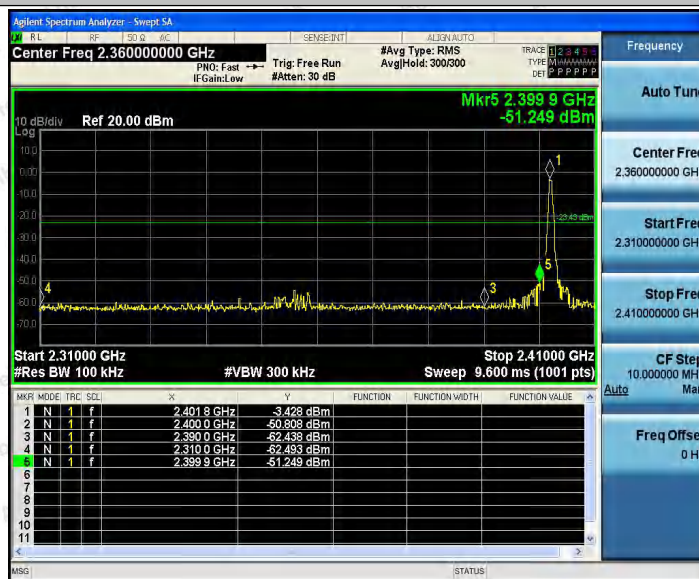
Appendix G: Band edge measurements

Test Result

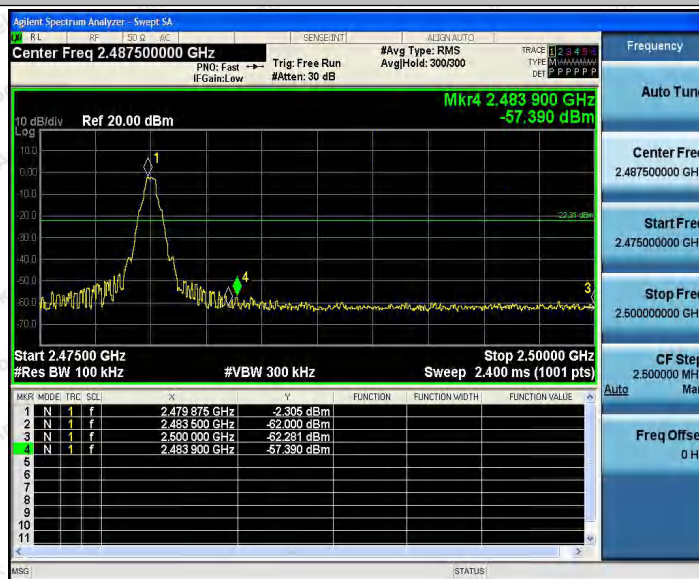
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.43	-51.25	≤-23.43	PASS
		High	2480	-2.31	-57.39	≤-22.31	PASS
		Low	Hop	-3.57	-59.89	≤-23.57	PASS
		High	Hop	-2.67	-61.89	≤-22.67	PASS
2DH5	Ant1	Low	2402	-4.46	-54.1	≤-24.46	PASS
		High	2480	-3.74	-56.42	≤-23.74	PASS
		Low	Hop	-7.69	-59.08	≤-27.69	PASS
		High	Hop	-7.11	-63.13	≤-27.11	PASS
3DH5	Ant1	Low	2402	-5.23	-54.81	≤-25.23	PASS
		High	2480	-4.05	-58.58	≤-24.05	PASS
		Low	Hop	-7.75	-59.73	≤-27.75	PASS
		High	Hop	-3.91	-61.18	≤-23.91	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



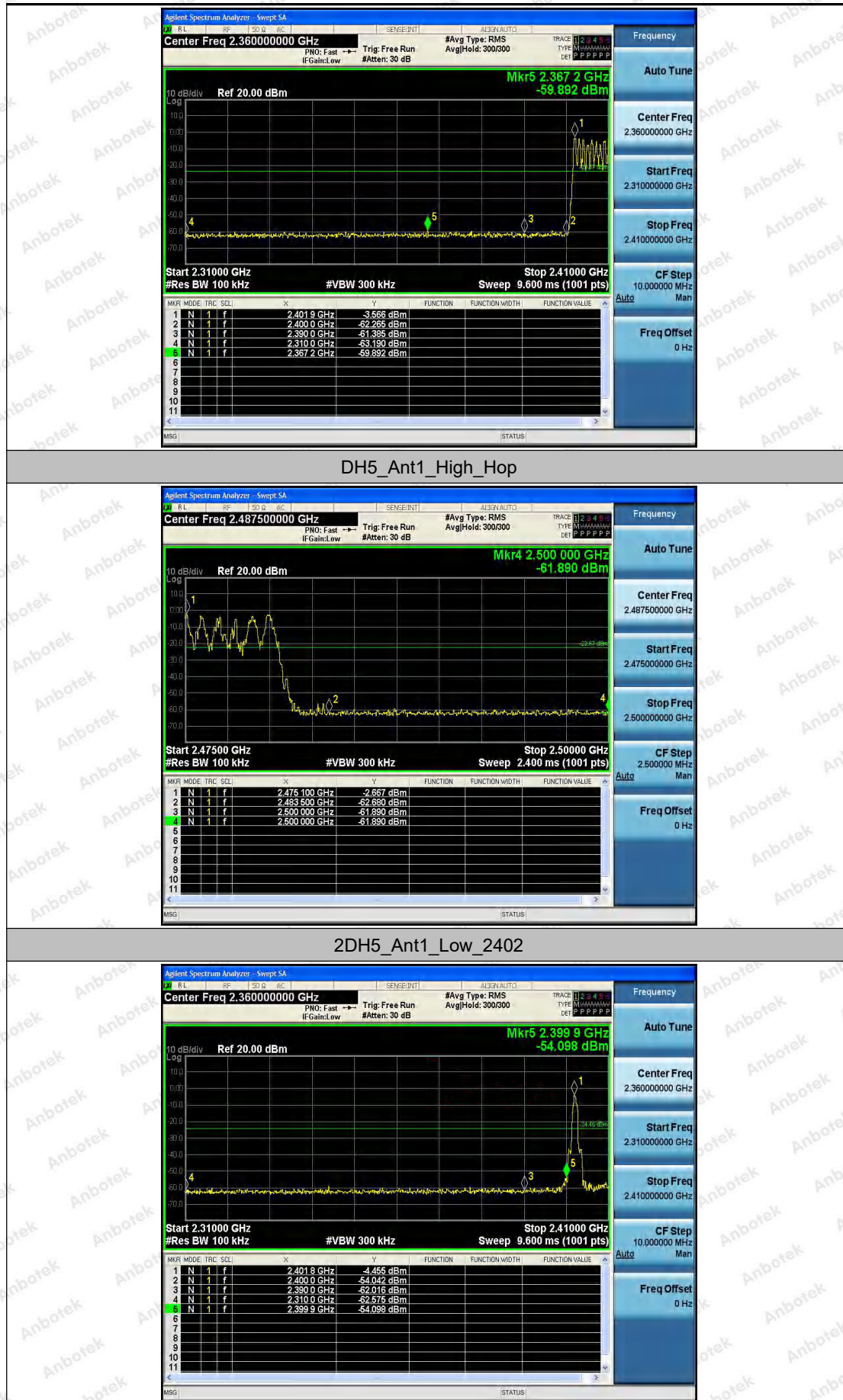
DH5_Ant1_Low_Hop

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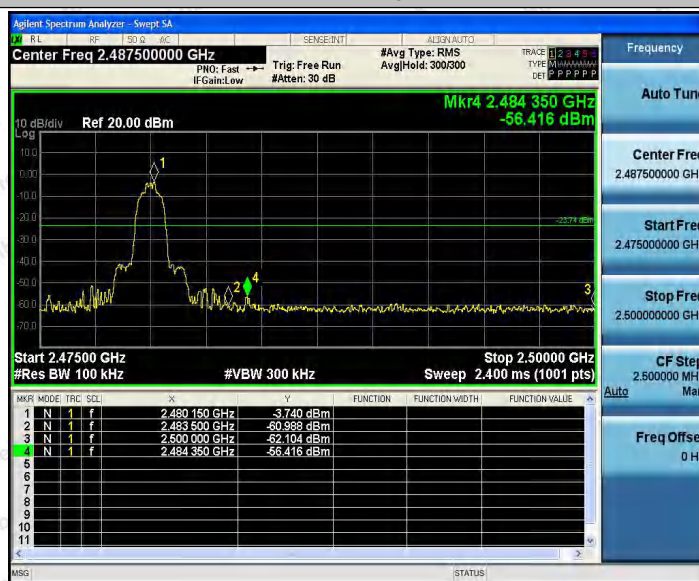
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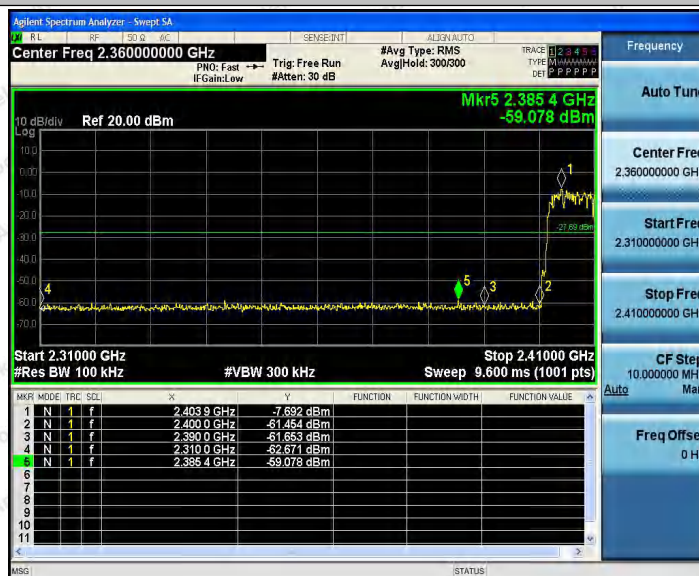
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



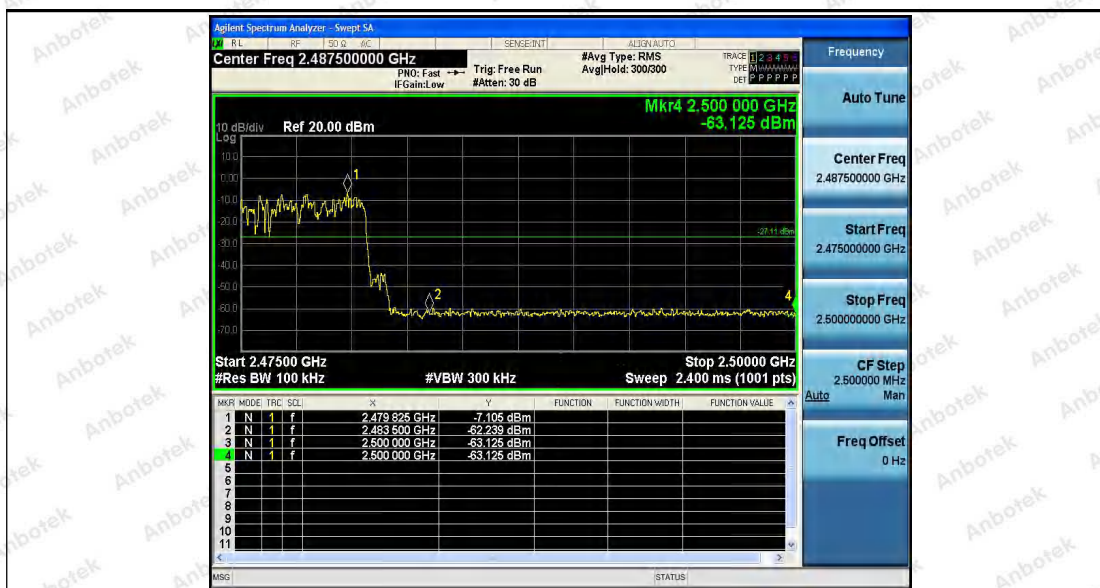
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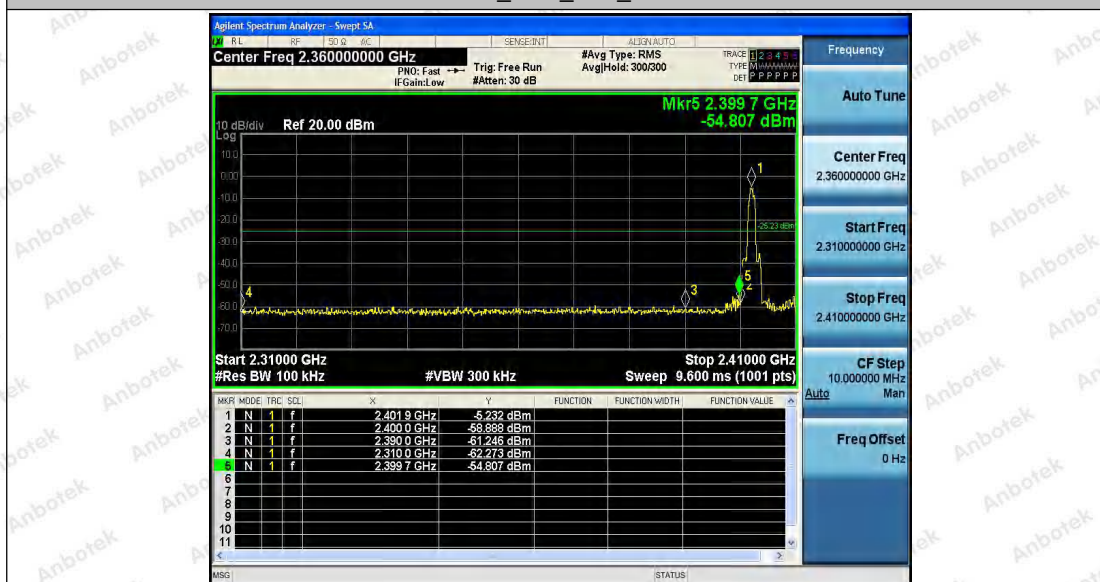
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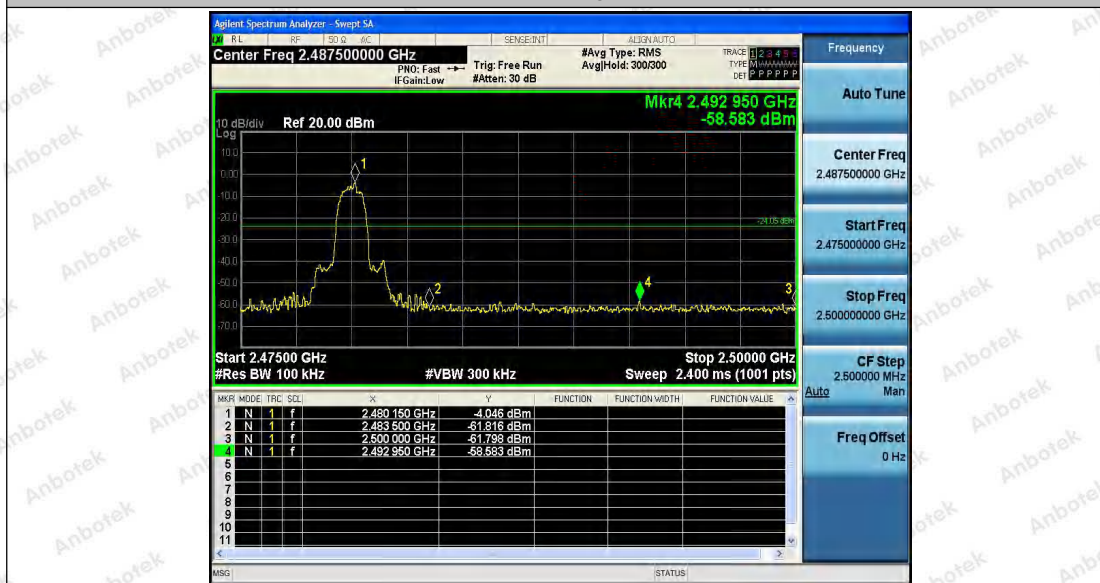
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

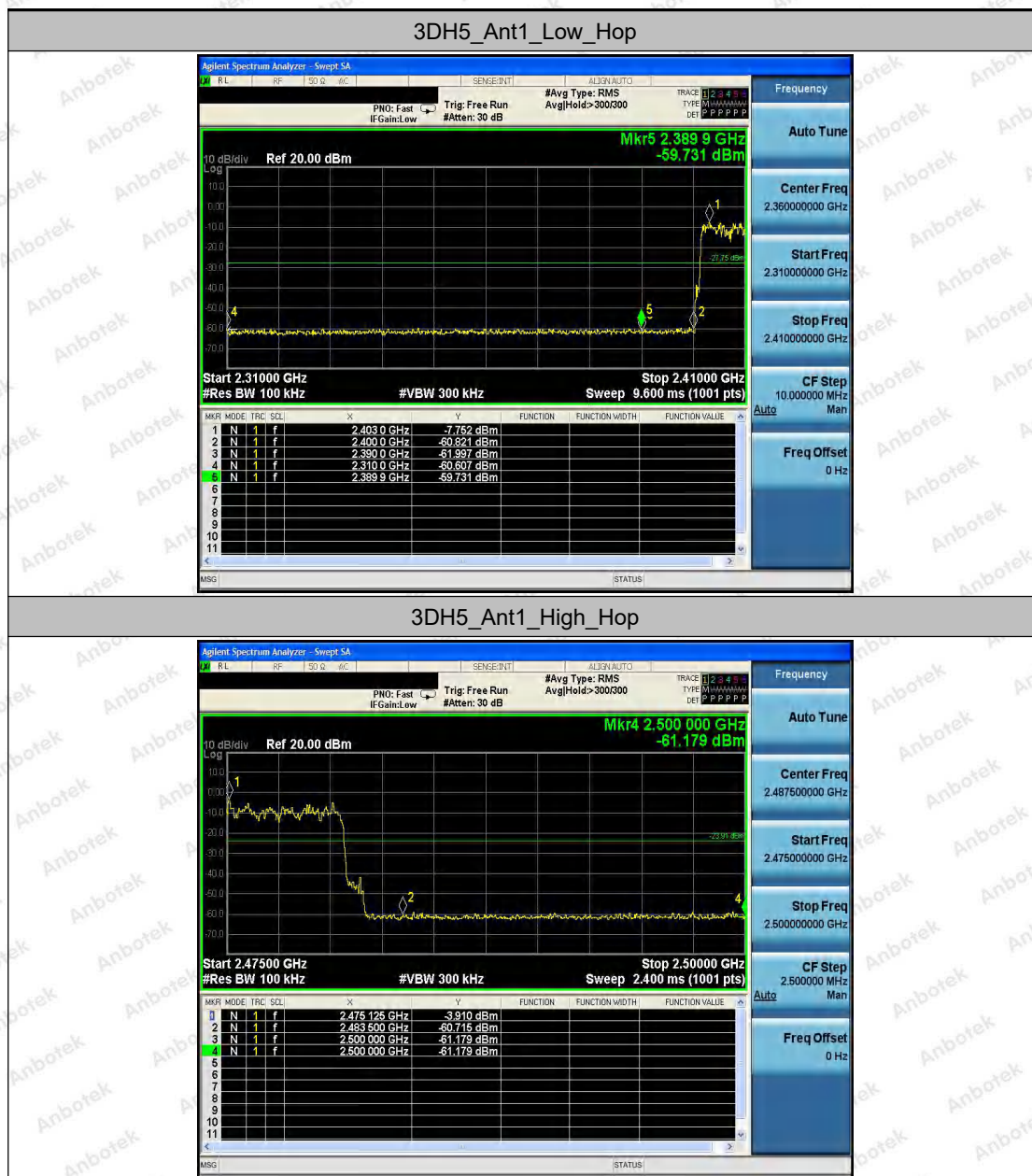


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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.97	-3.97	---	PASS
			30~1000	-3.97	-69.46	≤-23.97	PASS
			1000~26500	-3.97	-42.2	≤-23.97	PASS
		2441	Reference	-3.03	-3.03	---	PASS
			30~1000	-3.03	-70.1	≤-23.03	PASS
			1000~26500	-3.03	-45.26	≤-23.03	PASS
		2480	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-70.13	≤-22.25	PASS
			1000~26500	-2.25	-50.86	≤-22.25	PASS
2DH5	Ant1	2402	Reference	-4.68	-4.68	---	PASS
			30~1000	-4.68	-70.74	≤-24.68	PASS
			1000~26500	-4.68	-48.05	≤-24.68	PASS
		2441	Reference	-4.42	-4.42	---	PASS
			30~1000	-4.42	-70.02	≤-24.42	PASS
			1000~26500	-4.42	-49.15	≤-24.42	PASS
		2480	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-68.92	≤-23.96	PASS
			1000~26500	-3.96	-54.87	≤-23.96	PASS
3DH5	Ant1	2402	Reference	-4.50	-4.50	---	PASS
			30~1000	-4.50	-70.56	≤-24.5	PASS
			1000~26500	-4.50	-45.08	≤-24.5	PASS
		2441	Reference	-4.15	-4.15	---	PASS
			30~1000	-4.15	-69.73	≤-24.15	PASS
			1000~26500	-4.15	-47.56	≤-24.15	PASS
		2480	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-69.99	≤-24.71	PASS
			1000~26500	-4.71	-53.91	≤-24.71	PASS

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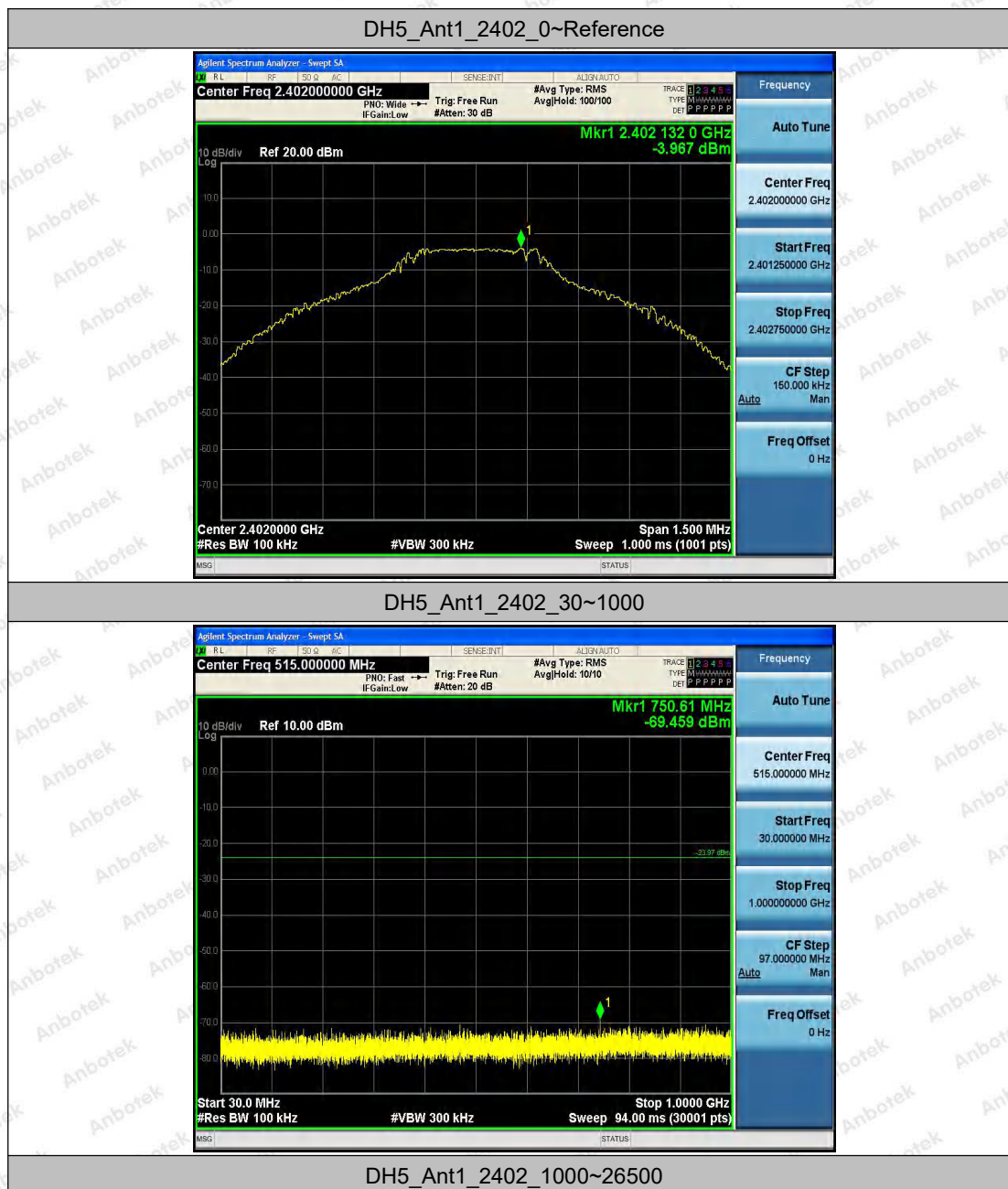


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Test Graphs



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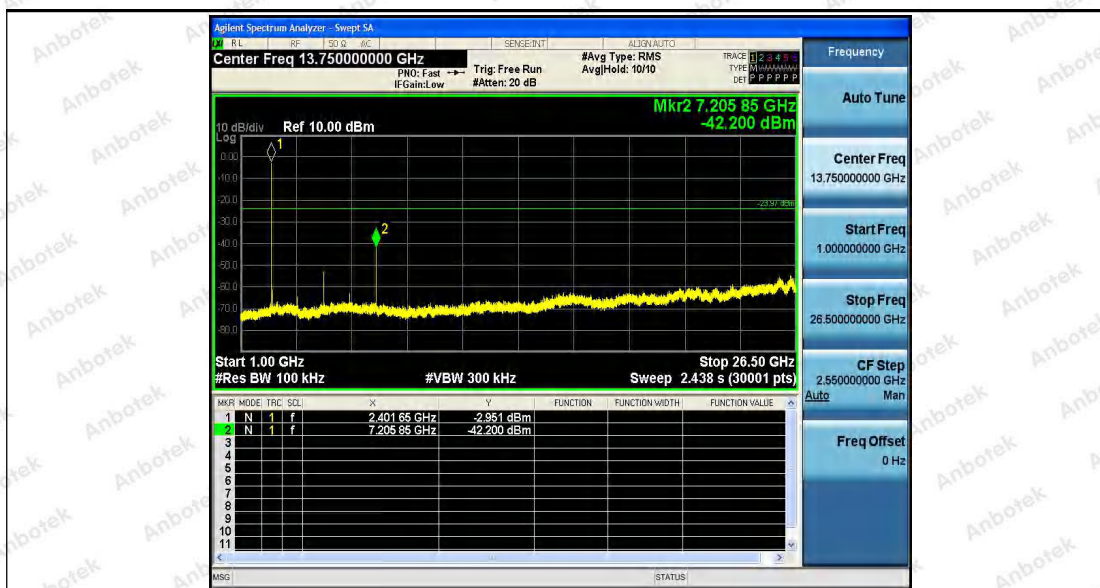
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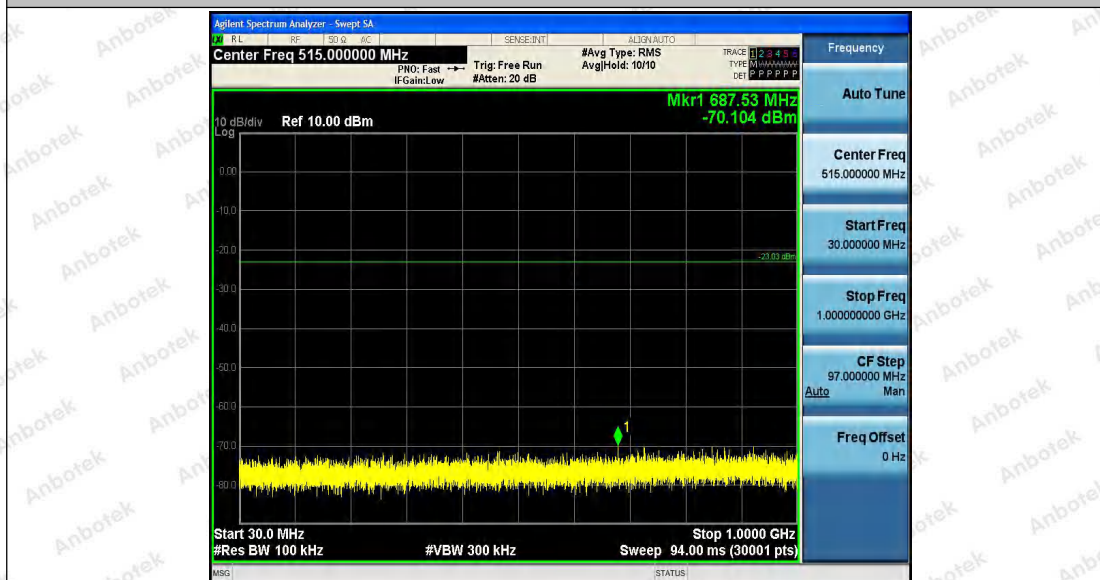
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



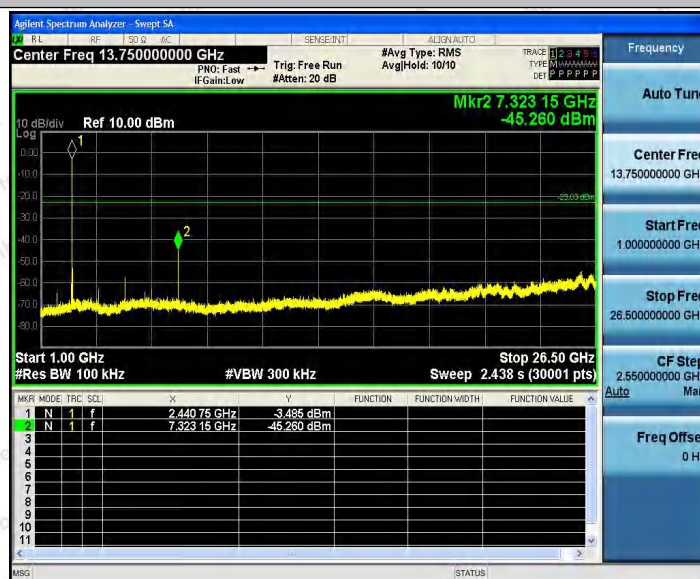
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



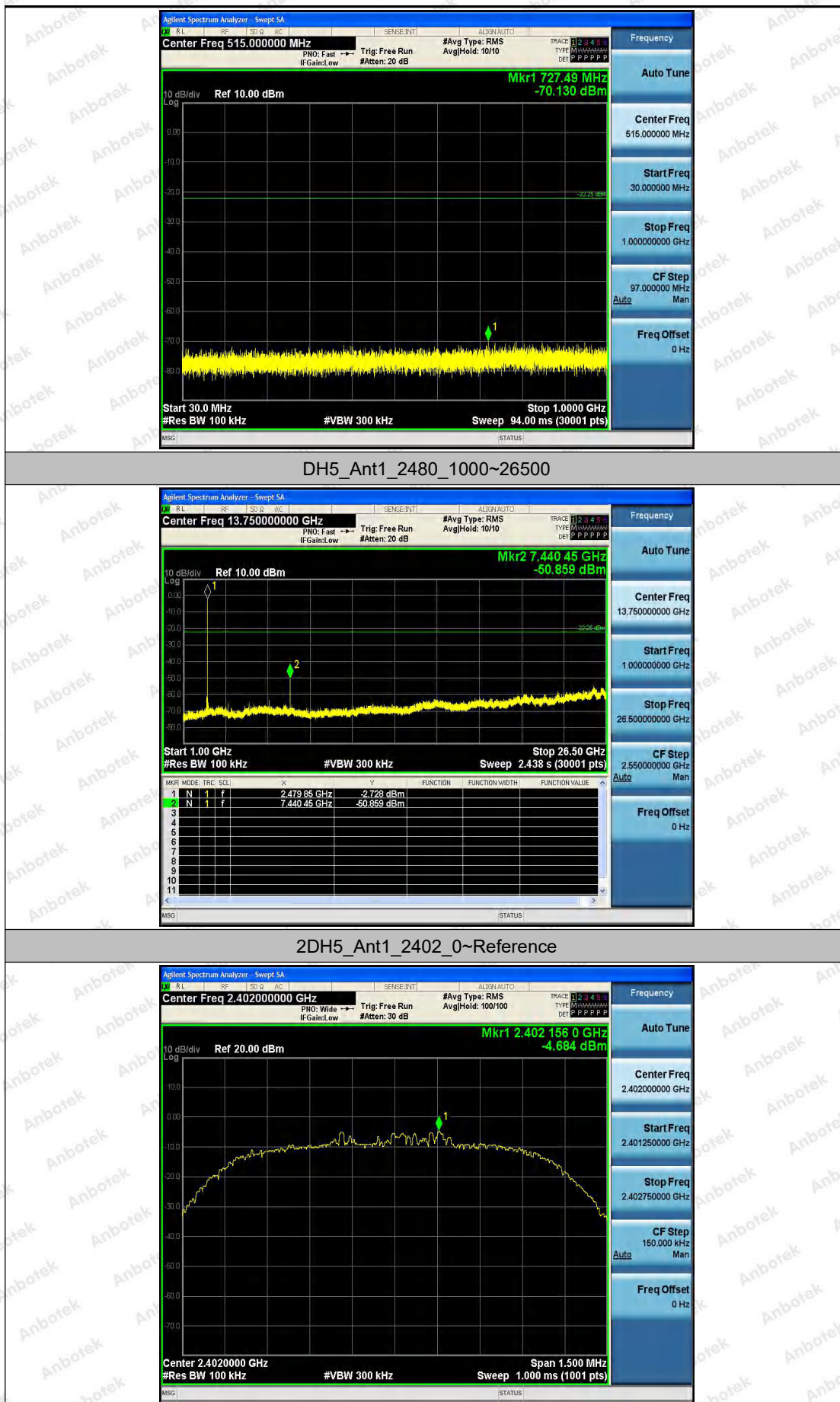
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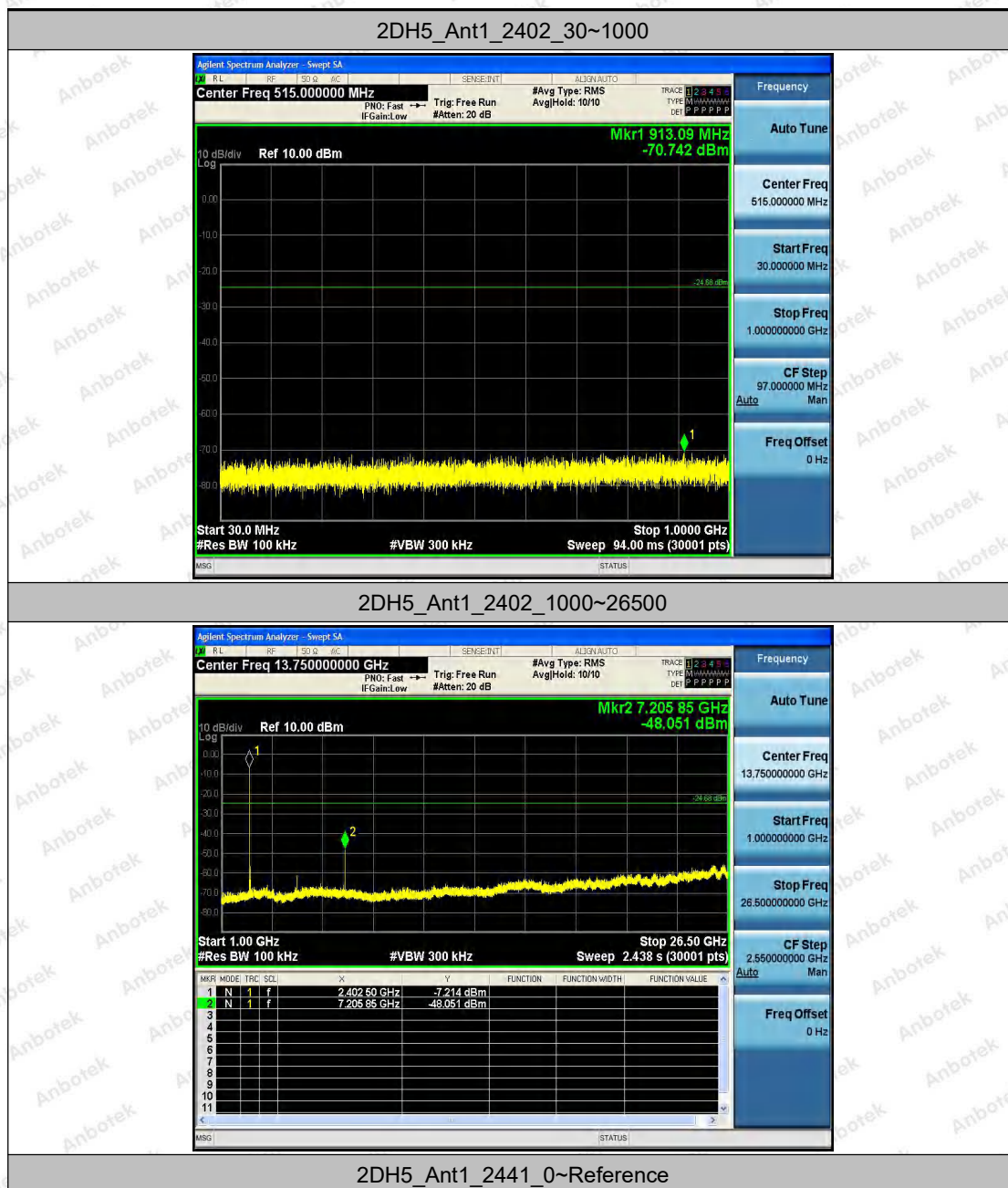


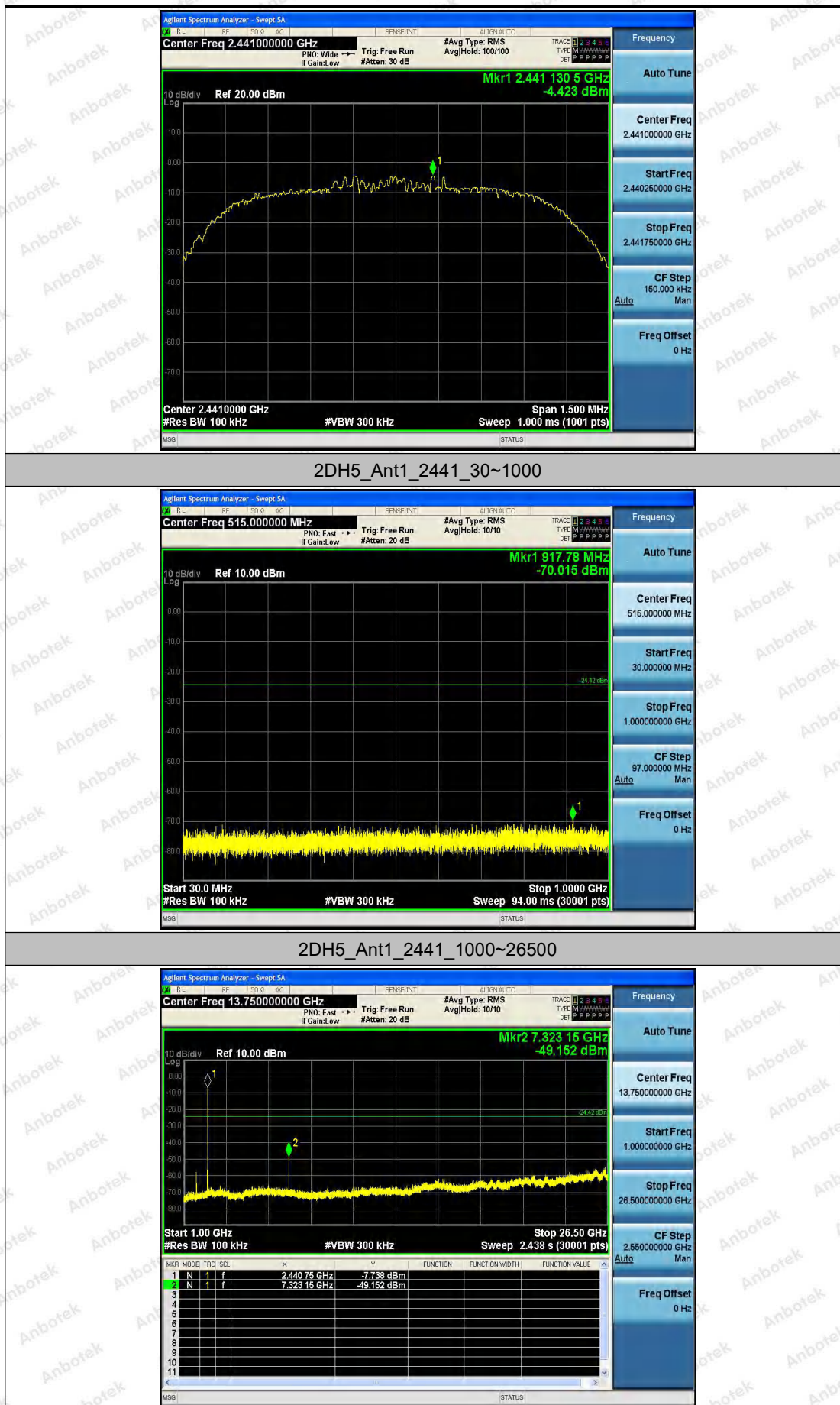
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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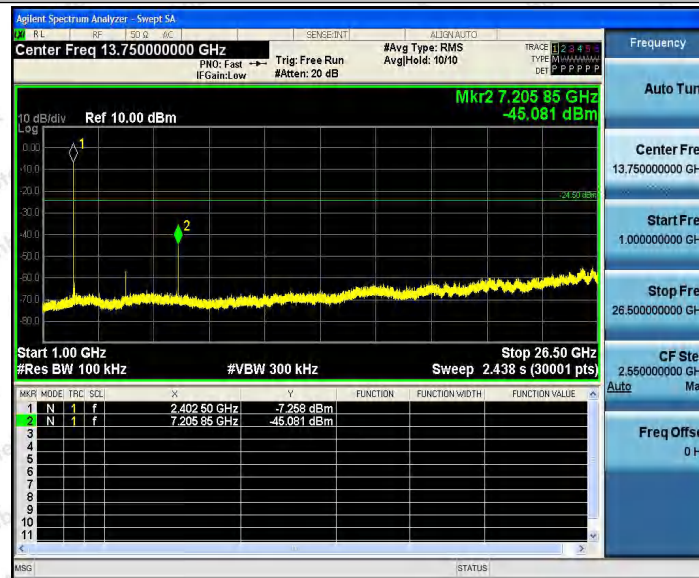


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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



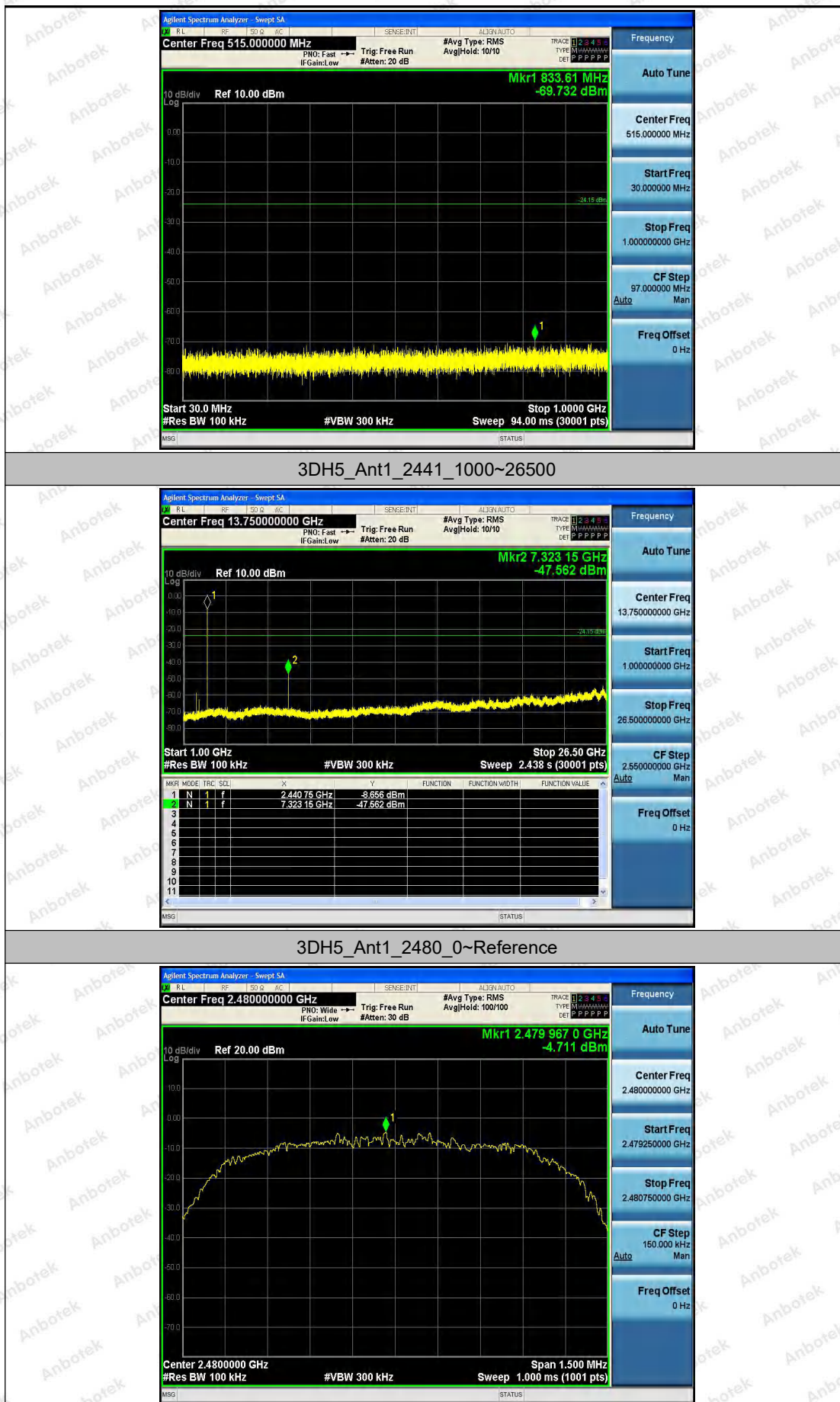
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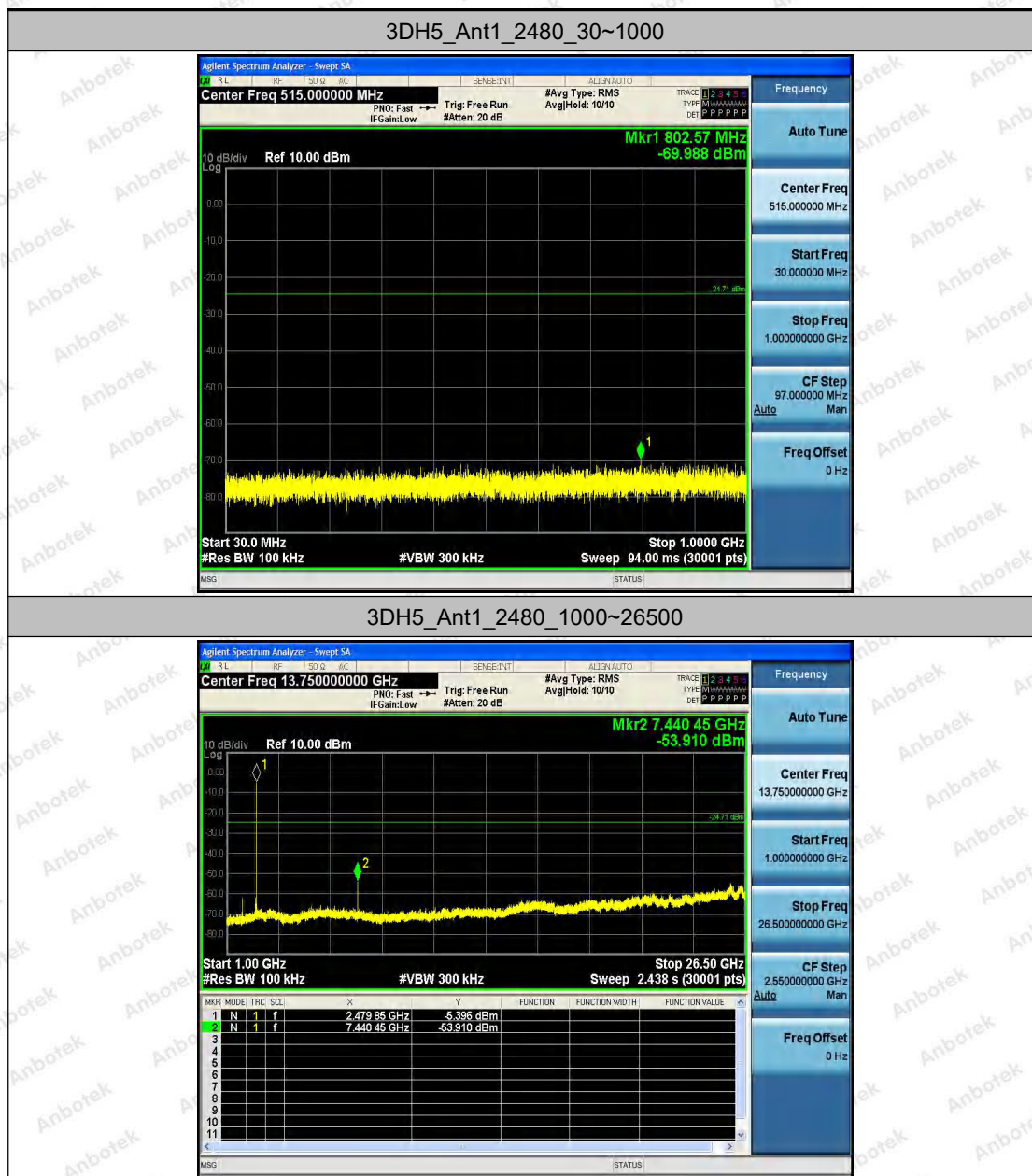


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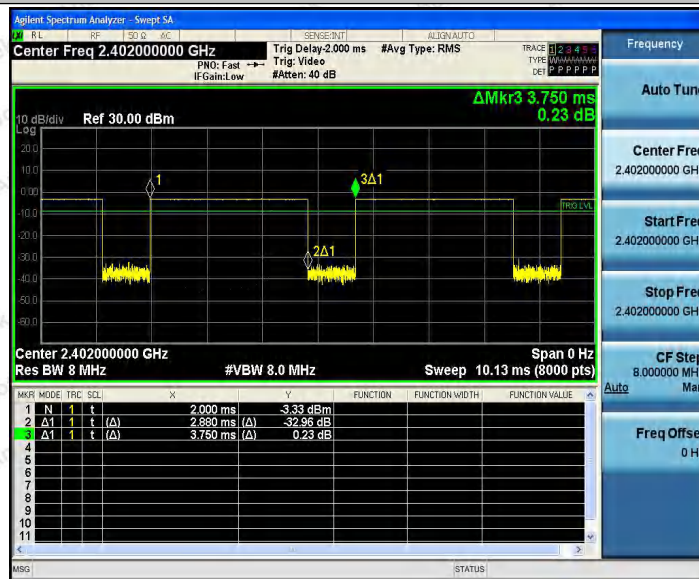
Appendix I: Duty Cycle

Test Result

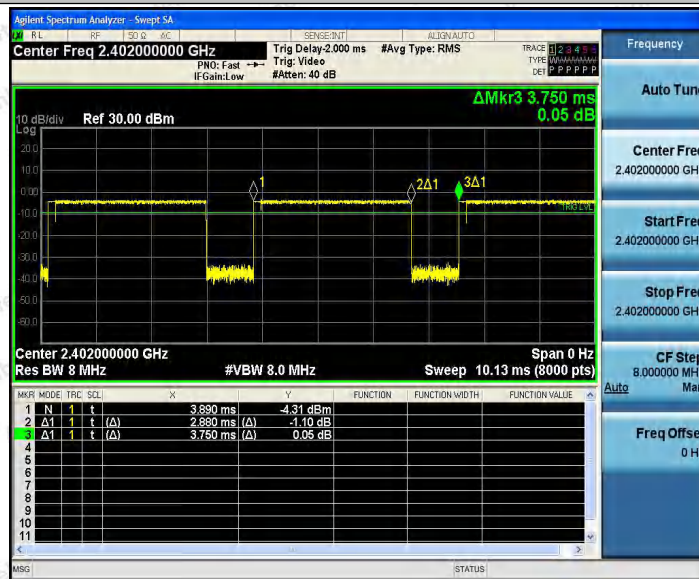
Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402

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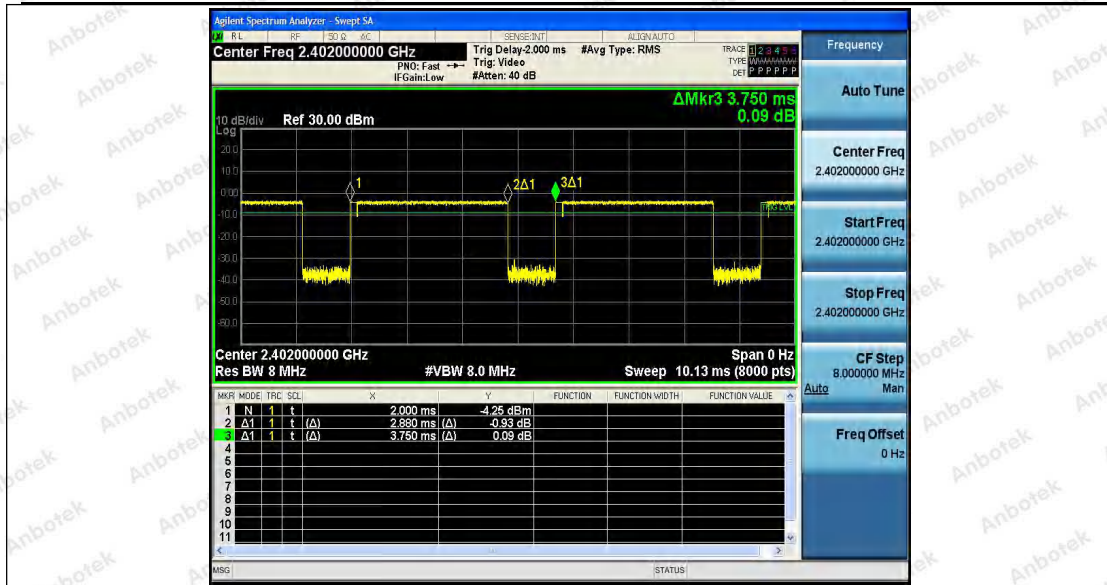
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