

Appendix Test Data

Report No.:	18220WC20143501	Test Sample No.:	1-2-2
Start Test Date:	2022.7.5	Finish Test Date:	2022.7.13
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.3 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.523	2402.465	---	PASS
		2441	0.939	2440.526	2441.465	---	PASS
		2480	0.948	2479.523	2480.471	---	PASS
2DH5	Ant1	2402	1.404	2401.280	2402.684	---	PASS
		2441	1.413	2440.277	2441.690	---	PASS
		2480	1.521	2479.226	2480.747	---	PASS
3DH5	Ant1	2402	1.491	2401.238	2402.729	---	PASS
		2441	1.419	2440.274	2441.693	---	PASS
		2480	1.518	2479.235	2480.753	---	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

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86030	2401.55 2	2402.412	---	PASS
		2441	0.86498	2440.55 3	2441.418	---	PASS
		2480	0.86389	2479.55 1	2480.414	---	PASS
2DH5	Ant1	2402	1.3621	2401.30 0	2402.662	---	PASS
		2441	1.3548	2440.30 7	2441.662	---	PASS
		2480	1.3524	2479.30 7	2480.660	---	PASS
3DH5	Ant1	2402	1.3639	2401.30 3	2402.667	---	PASS
		2441	1.3581	2440.30 9	2441.667	---	PASS
		2480	1.3548	2479.30 8	2480.663	---	PASS

Test Graphs



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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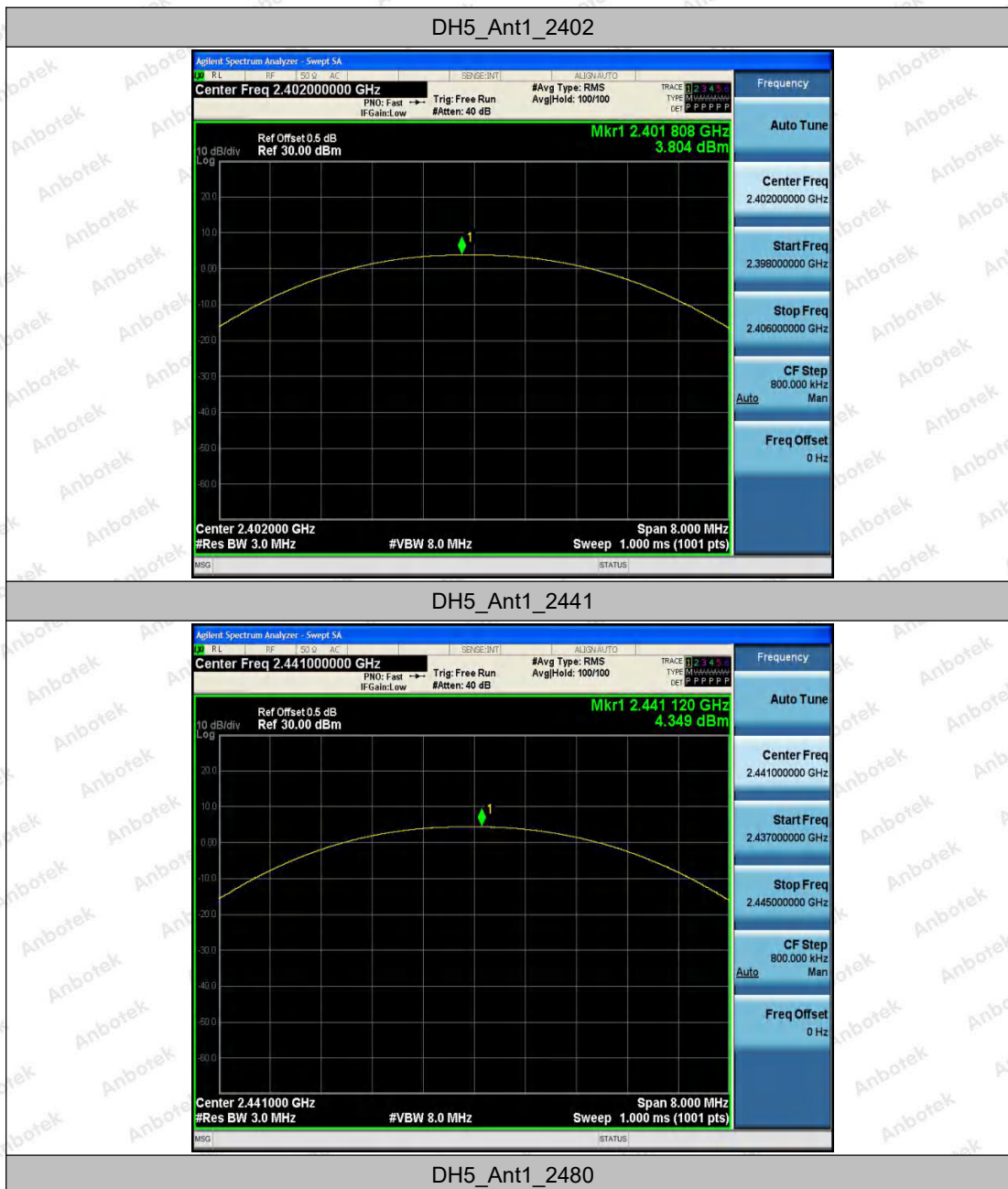
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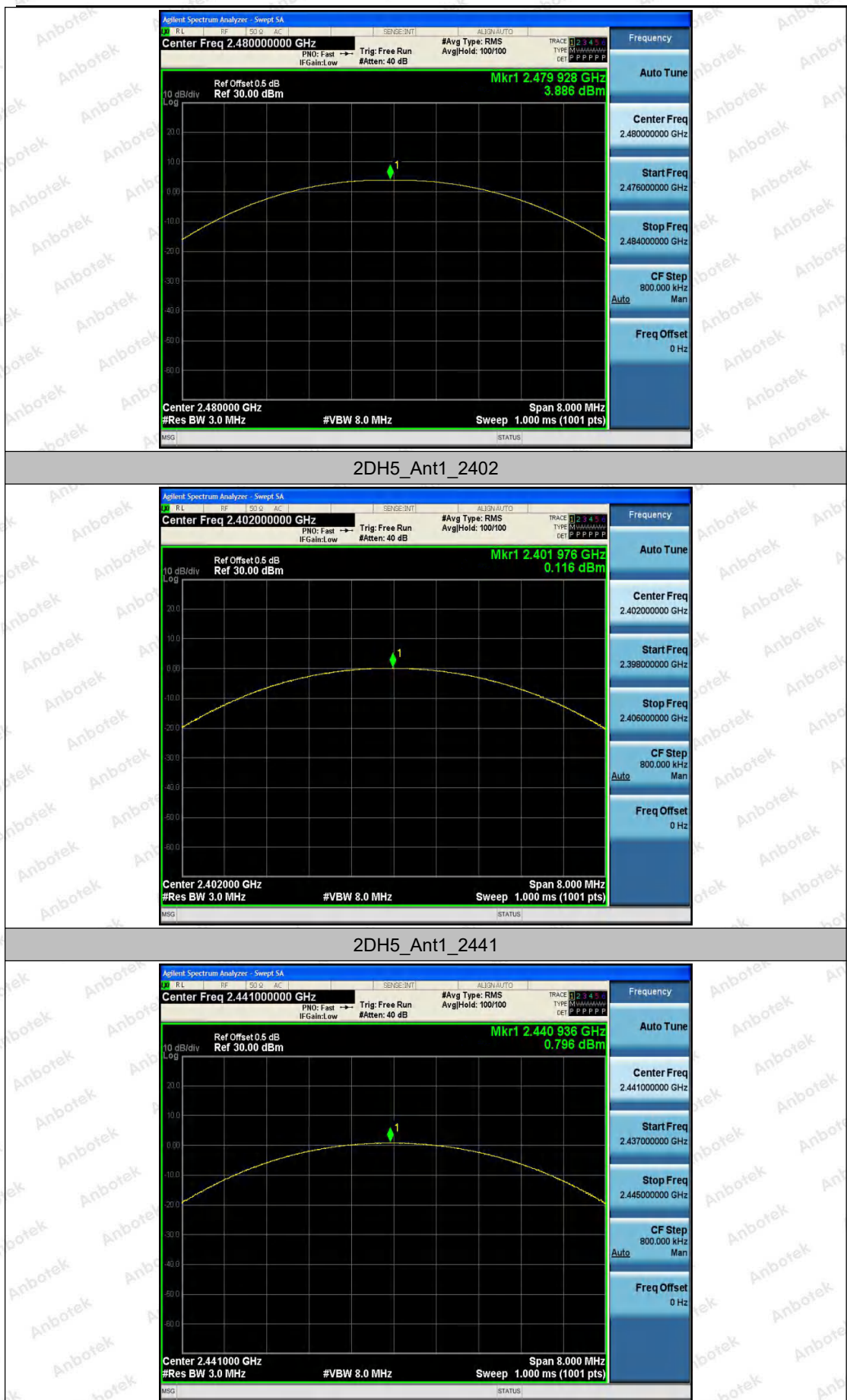
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.8	≤20.97	PASS
		2441	4.35	≤20.97	PASS
		2480	3.89	≤20.97	PASS
2DH5	Ant1	2402	0.12	≤20.97	PASS
		2441	0.8	≤20.97	PASS
		2480	0.47	≤20.97	PASS
3DH5	Ant1	2402	0.42	≤20.97	PASS
		2441	1.05	≤20.97	PASS
		2480	0.69	≤20.97	PASS

Test Graphs



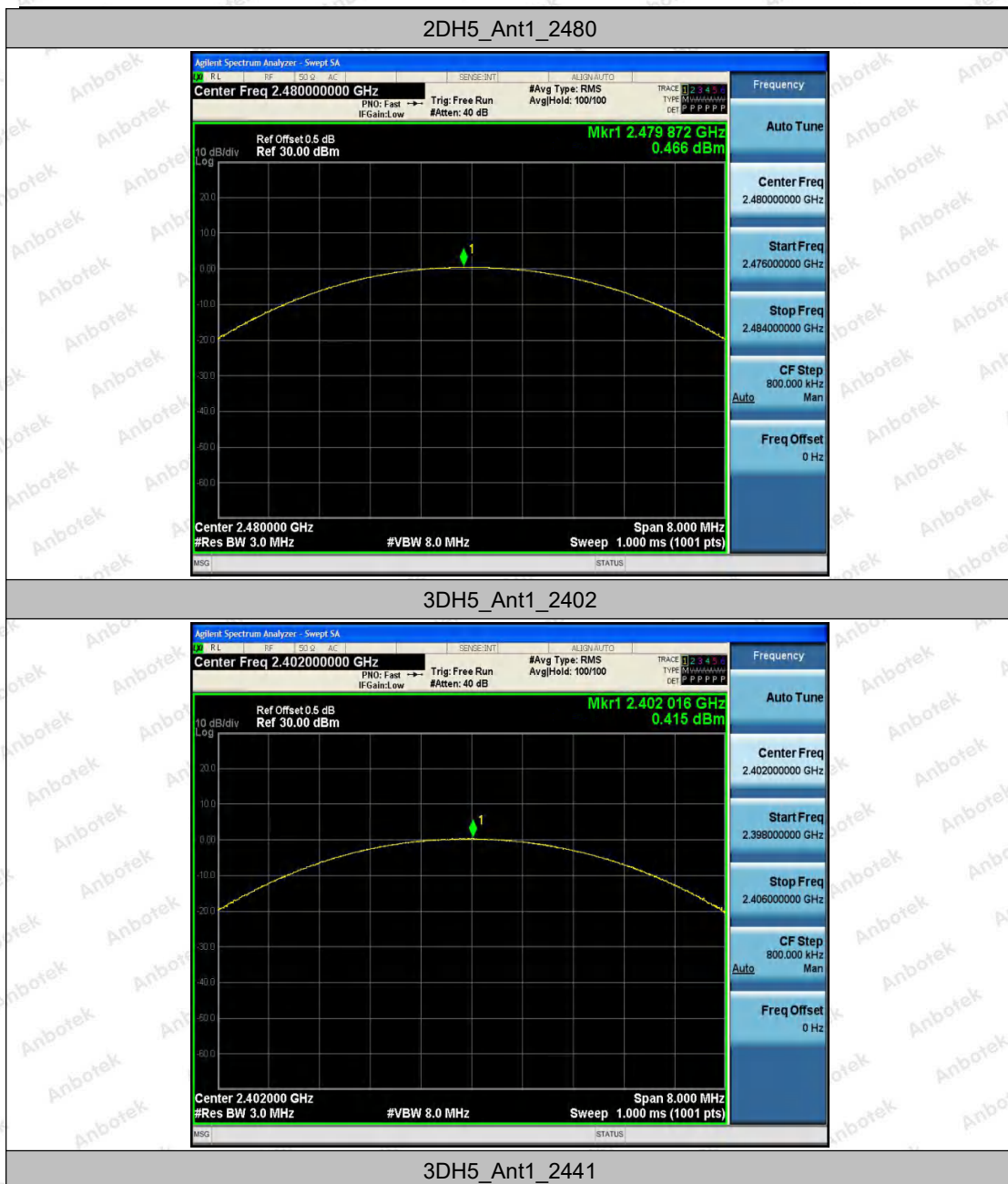


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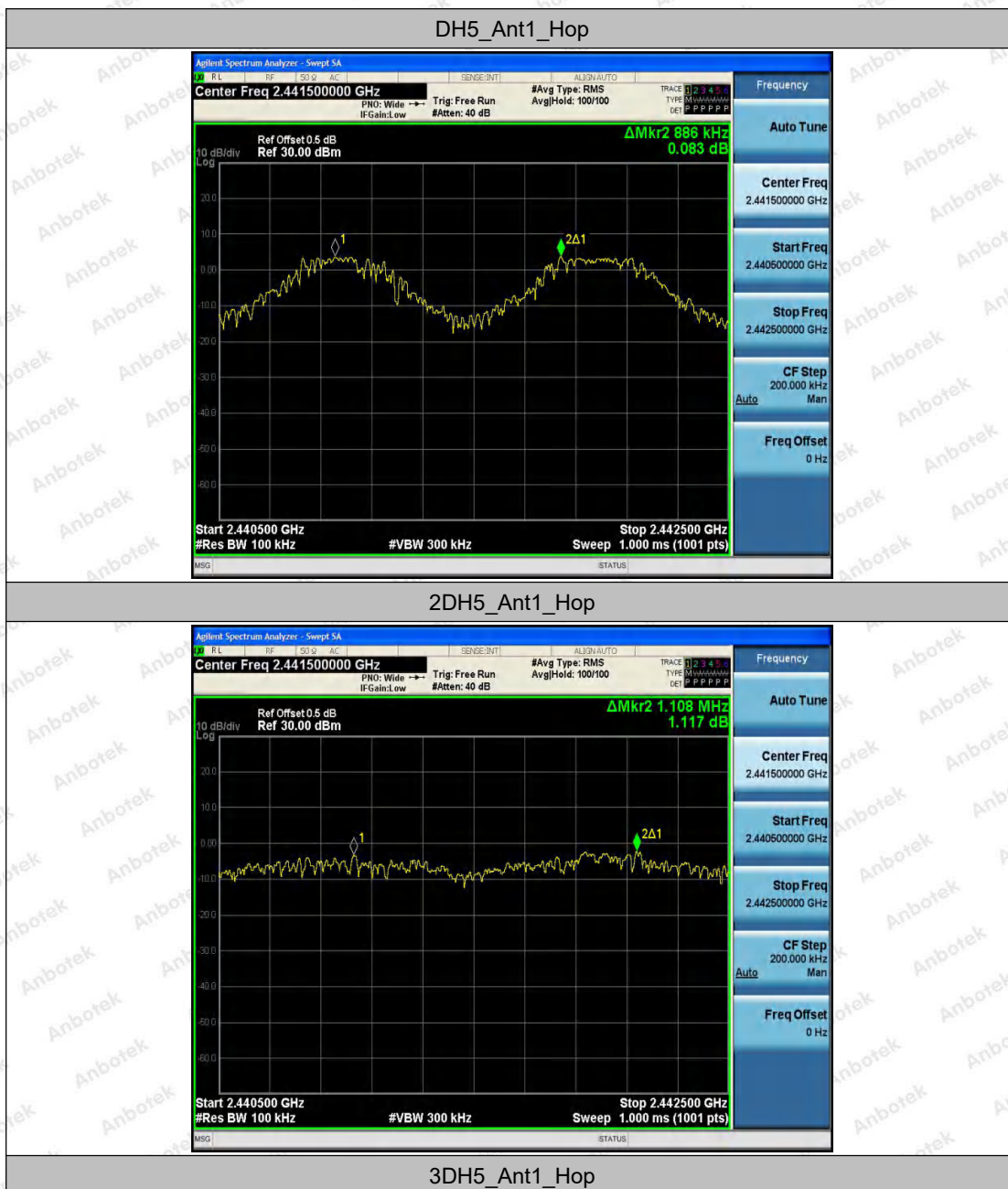
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.886	≥ 0.632	PASS
2DH5	Ant1	Hop	1.108	≥ 1.014	PASS
3DH5	Ant1	Hop	1.054	≥ 1.012	PASS

Test Graphs

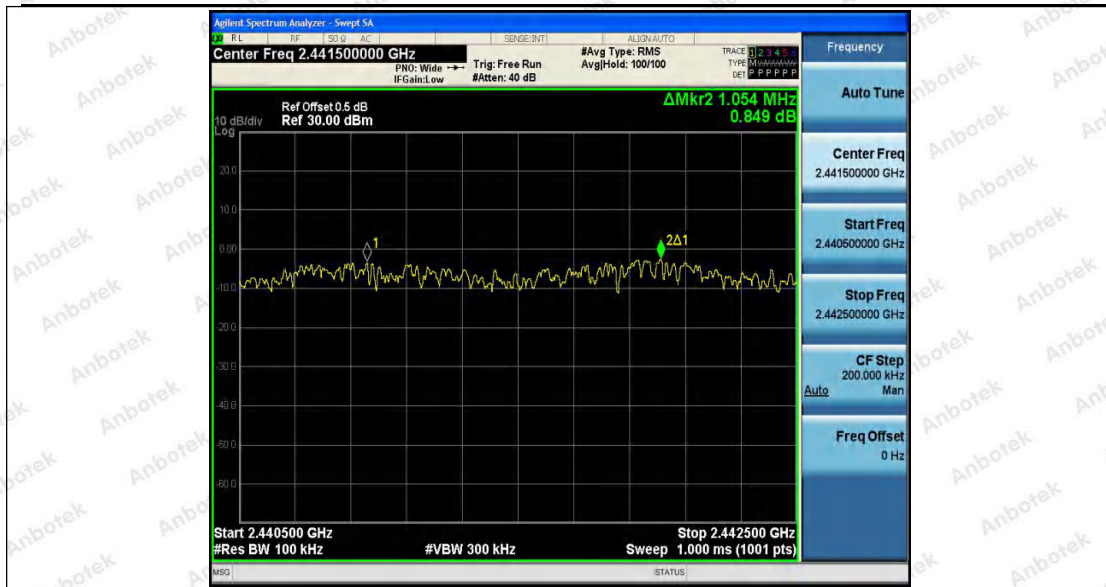


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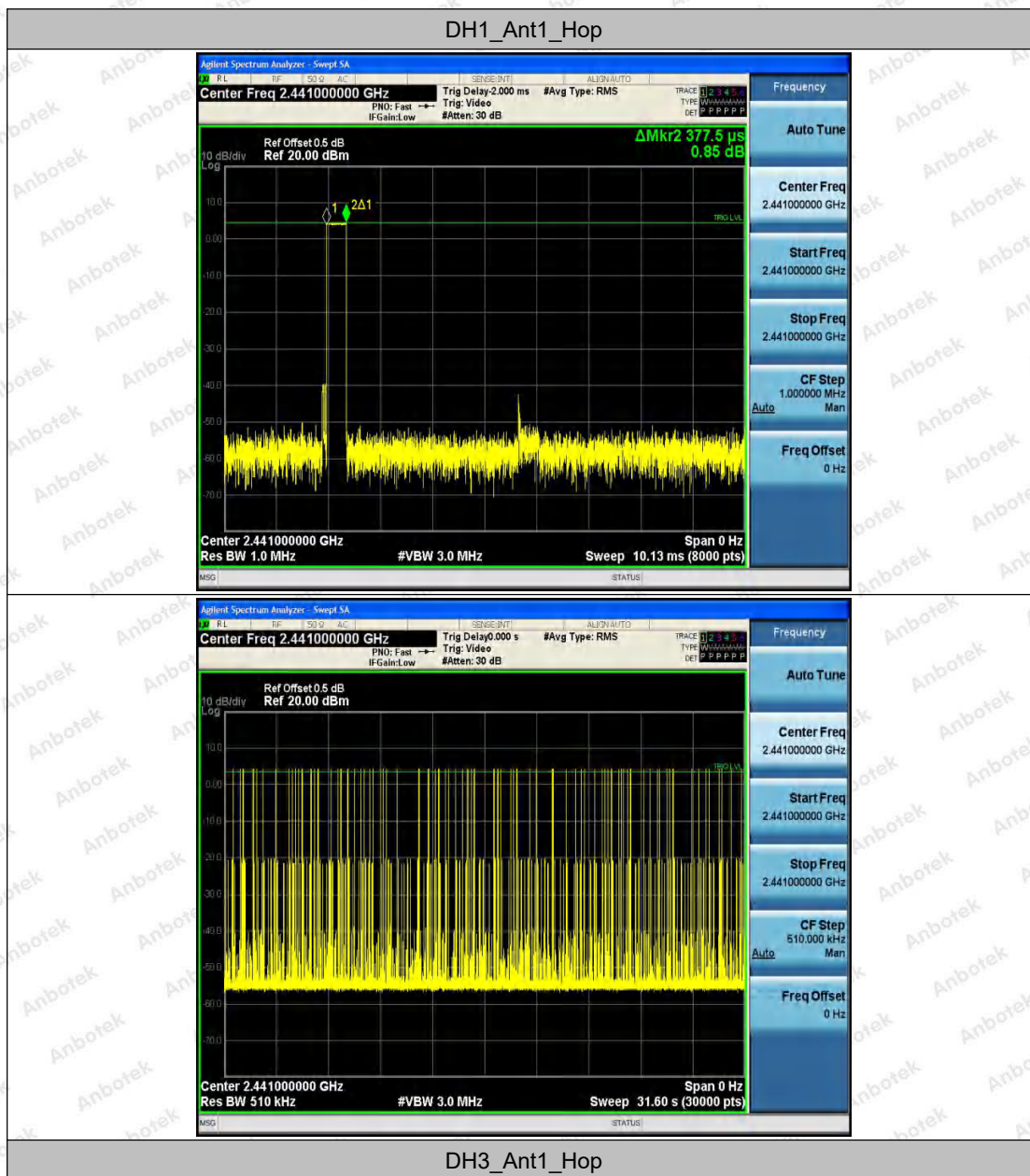
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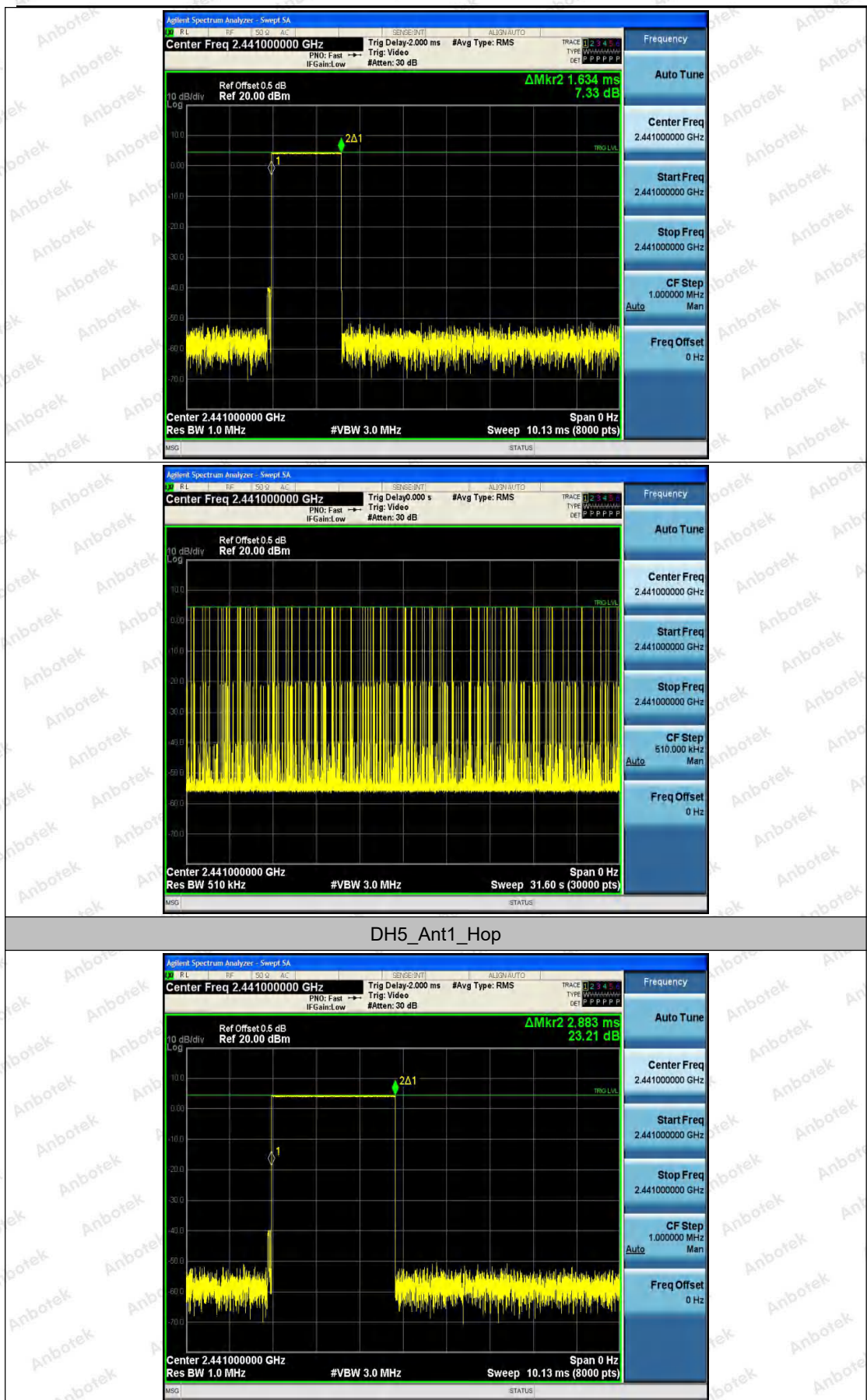
Appendix E: Time of occupancy

Test Result

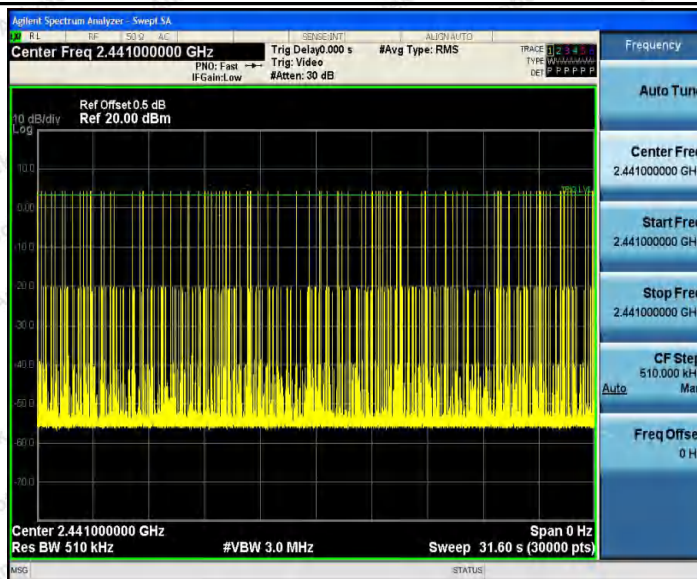
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	97	0.037	≤0.4	PASS
DH3	Ant1	Hop	1.63	103	0.168	≤0.4	PASS
DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
2DH1	Ant1	Hop	0.39	318	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.64	161	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.89	104	0.3	≤0.4	PASS
3DH1	Ant1	Hop	0.39	320	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.64	161	0.264	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS

Test Graphs

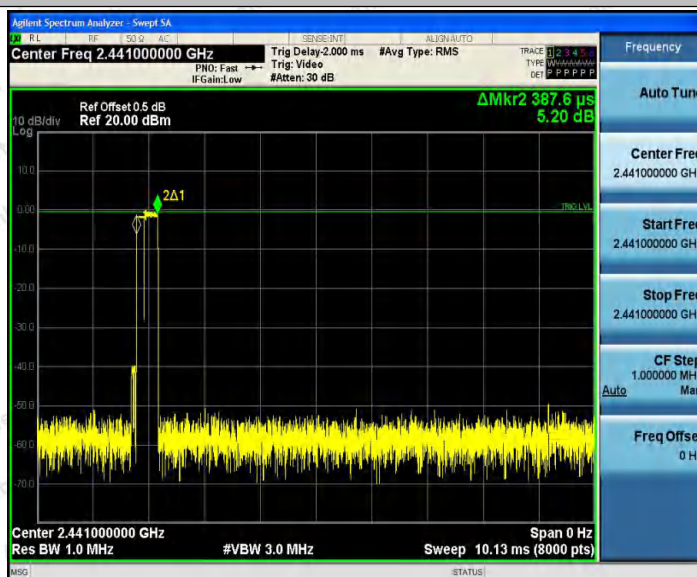




DH5_Ant1_Hop



2DH1_Ant1_Hop



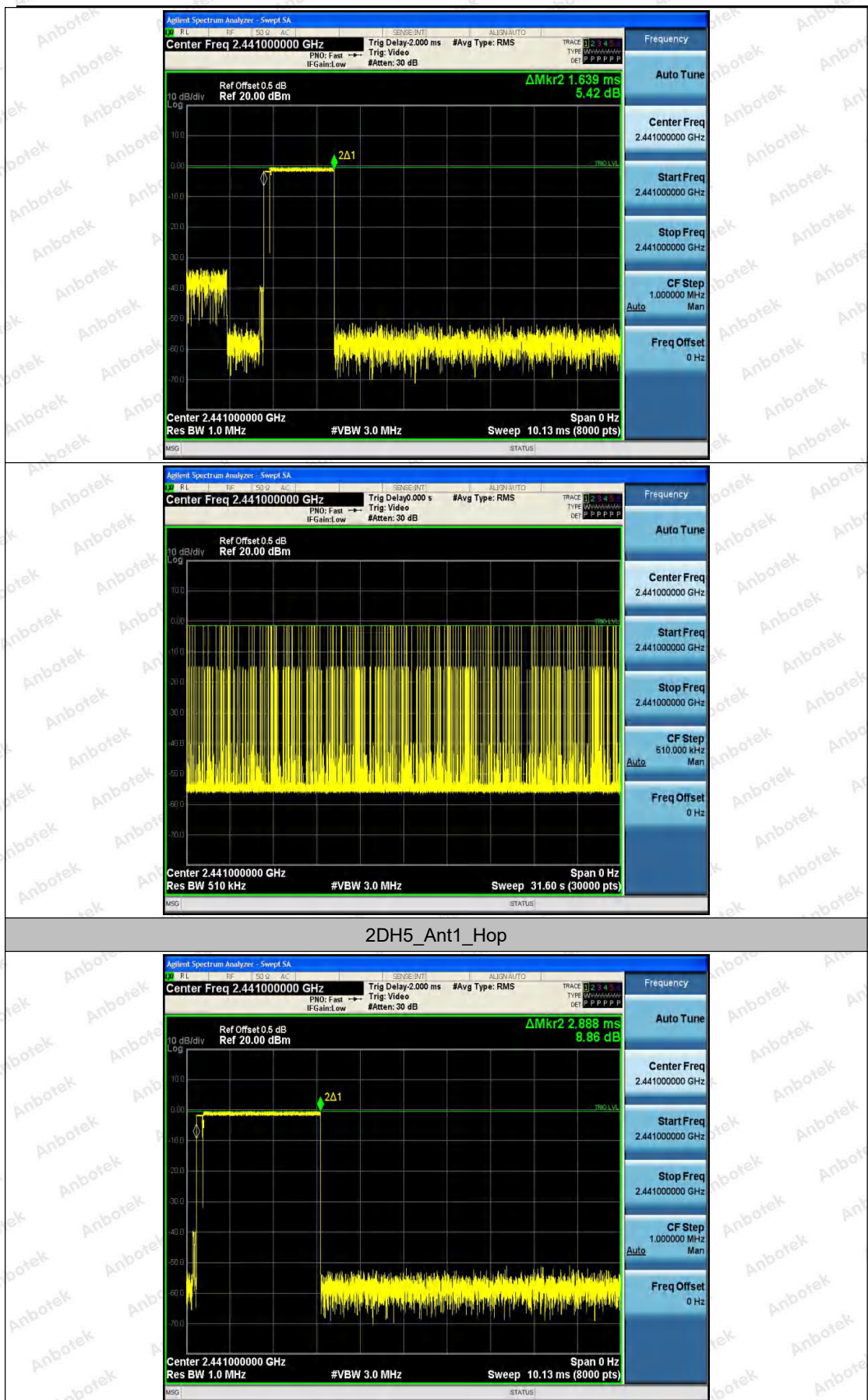
2DH3_Ant1_Hop

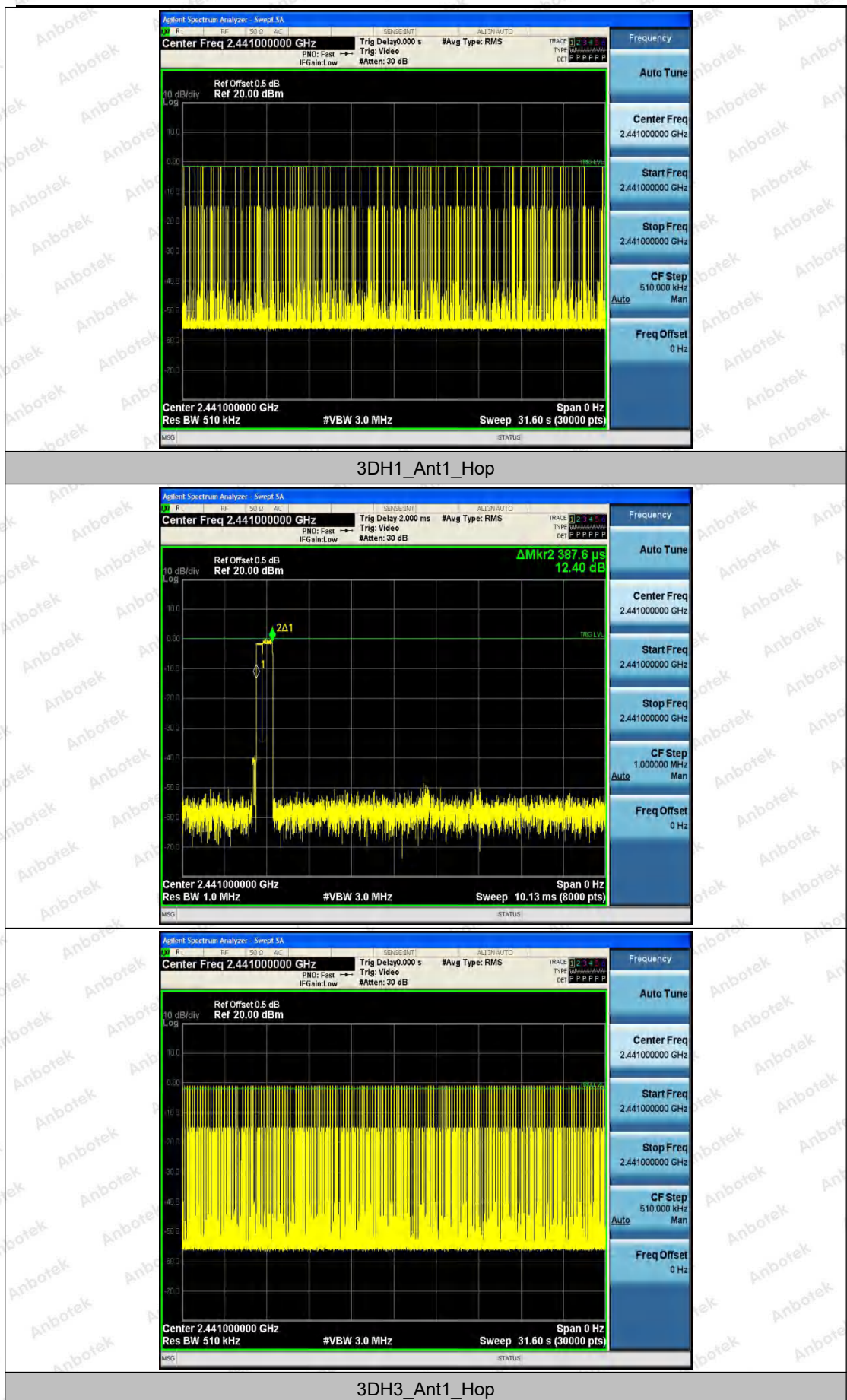
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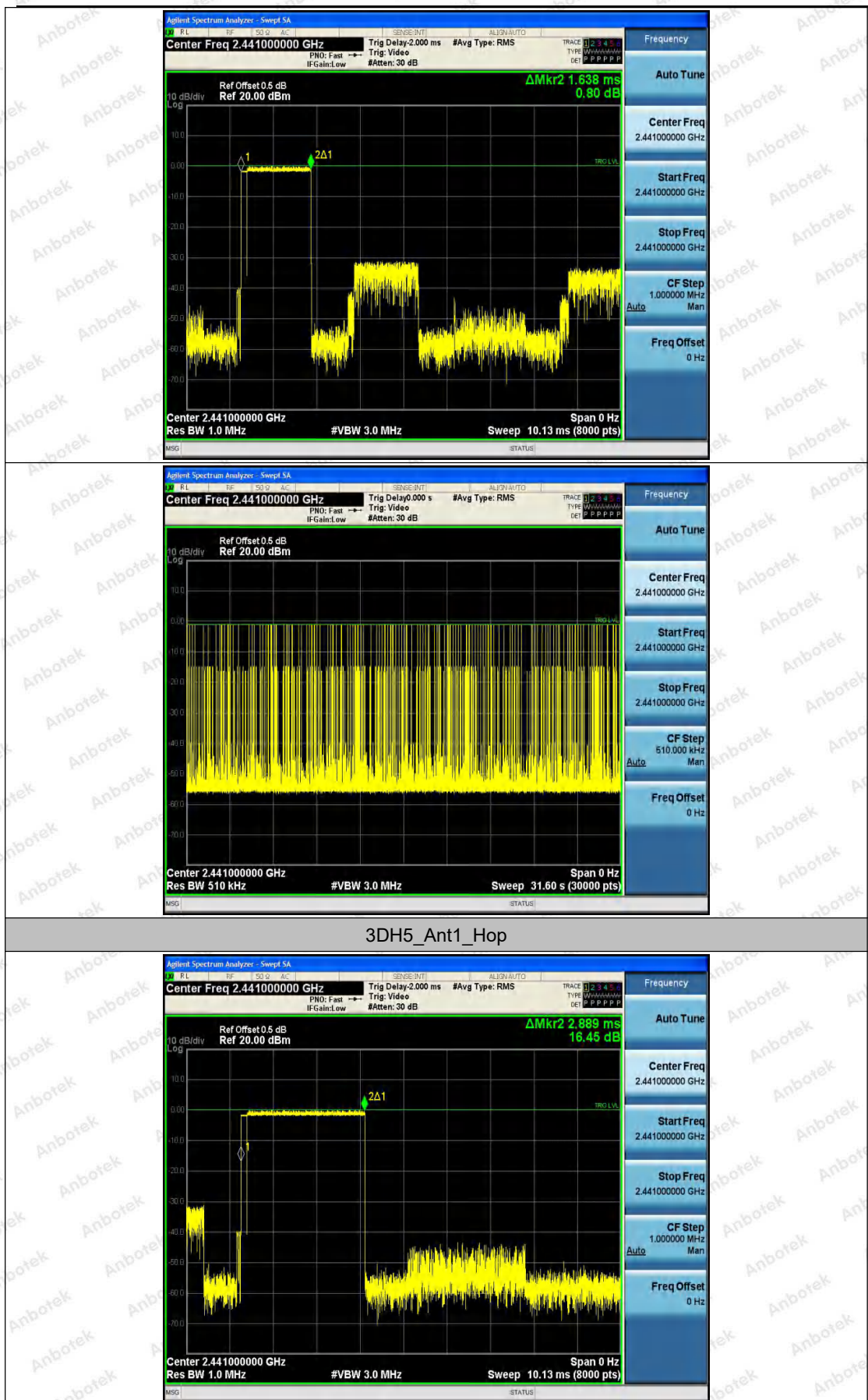


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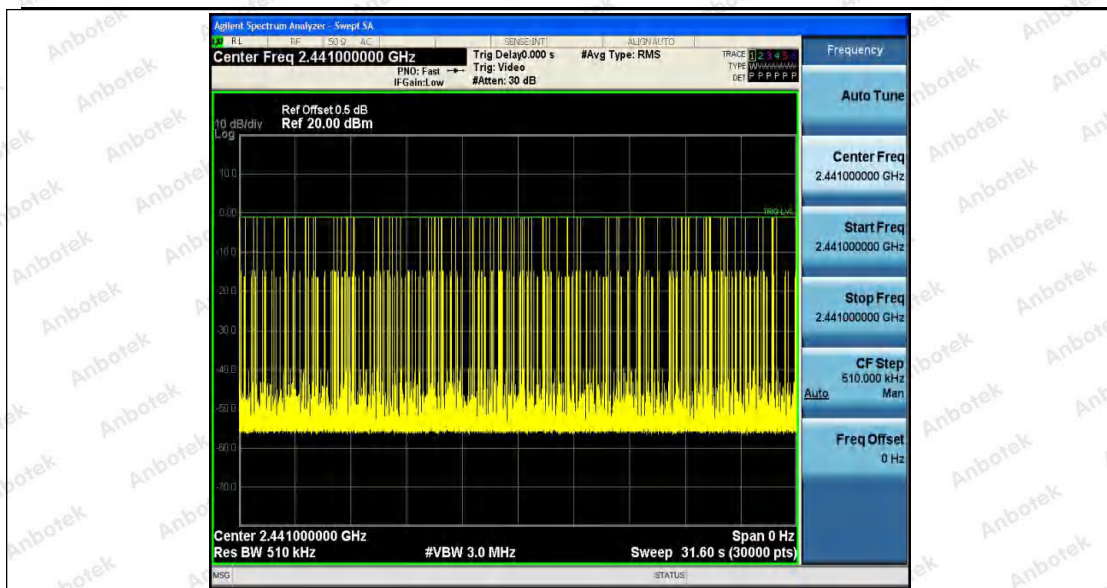
3DH5_Ant1_Hop

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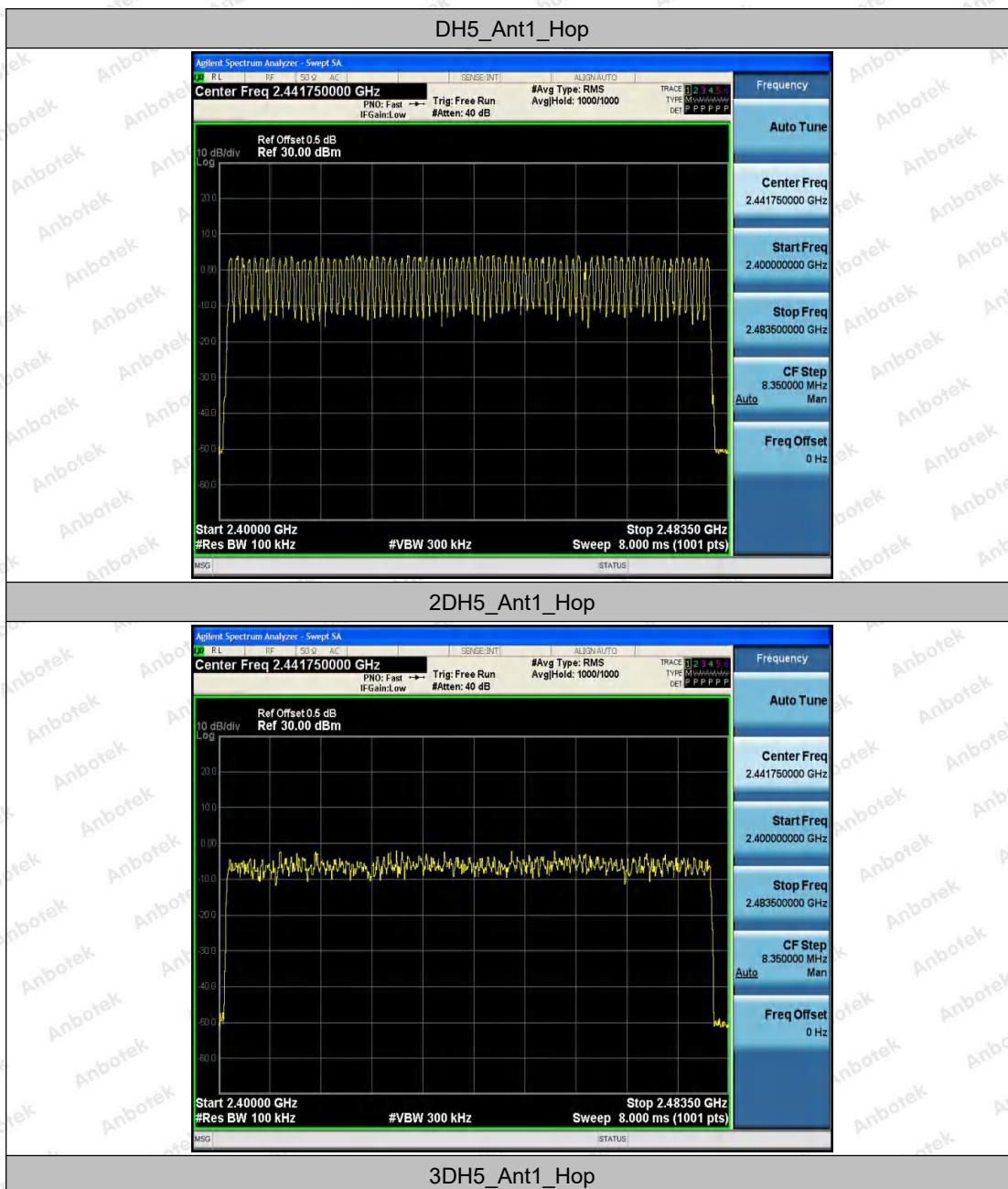
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Appendix F: Number of hopping channels

Test Result

TestMode	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

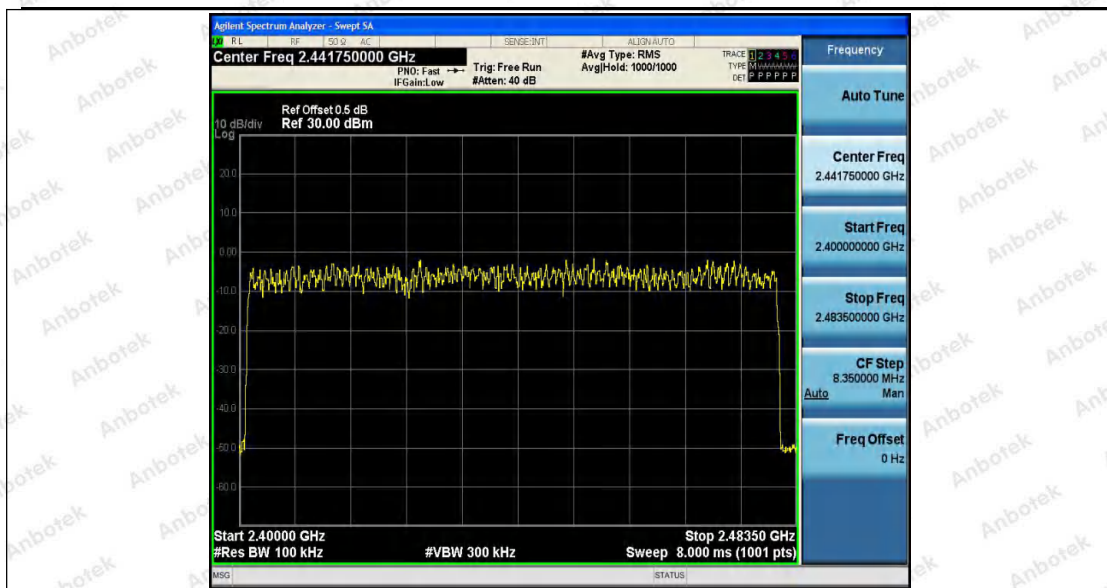


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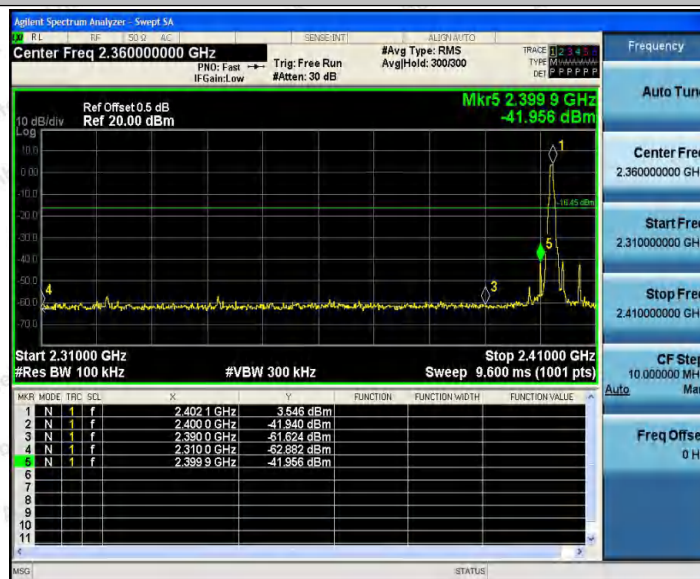
Appendix G: Band edge measurements

Test Result

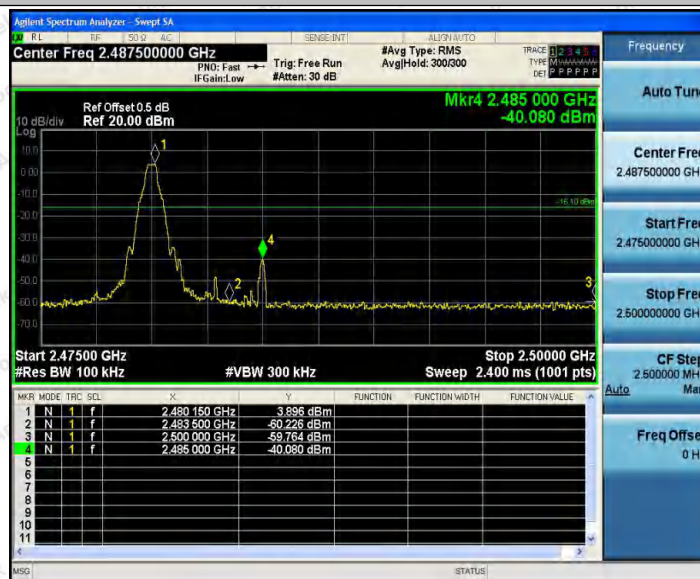
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.55	-41.96	≤-16.45	PASS
		High	2480	3.90	-40.08	≤-16.1	PASS
		Low	Hop	3.51	-55.69	≤-16.49	PASS
		High	Hop	3.52	-55.94	≤-16.48	PASS
2DH5	Ant1	Low	2402	-2.32	-51.06	≤-22.32	PASS
		High	2480	-2.25	-41.39	≤-22.25	PASS
		Low	Hop	-2.28	-58.41	≤-22.28	PASS
		High	Hop	-4.00	-60.74	≤-24	PASS
3DH5	Ant1	Low	2402	-2.28	-52.51	≤-22.28	PASS
		High	2480	-1.88	-39.99	≤-21.88	PASS
		Low	Hop	-3.10	-58.58	≤-23.1	PASS
		High	Hop	-2.67	-62.07	≤-22.67	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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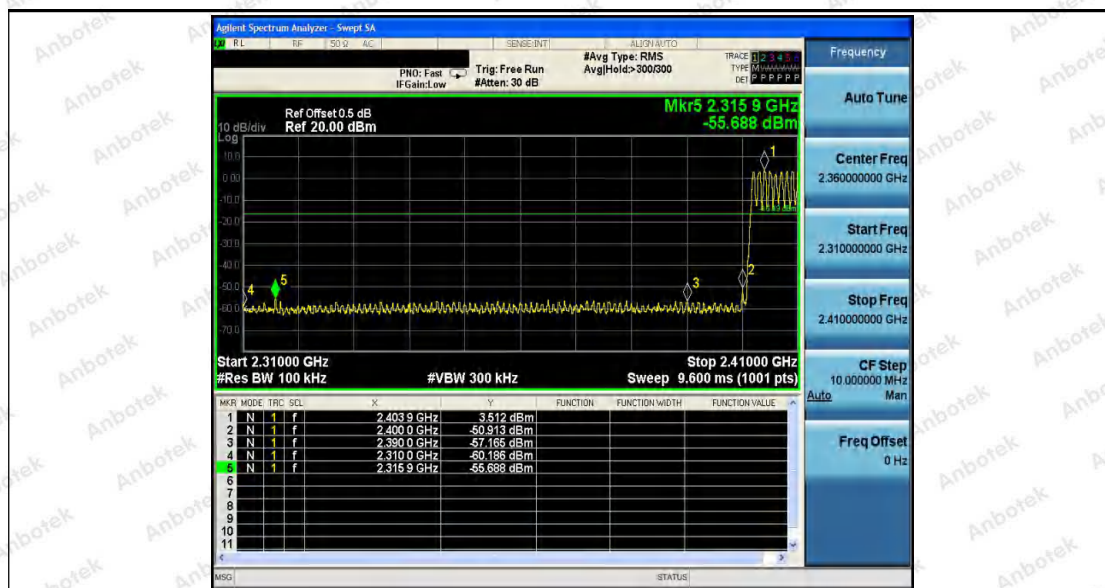
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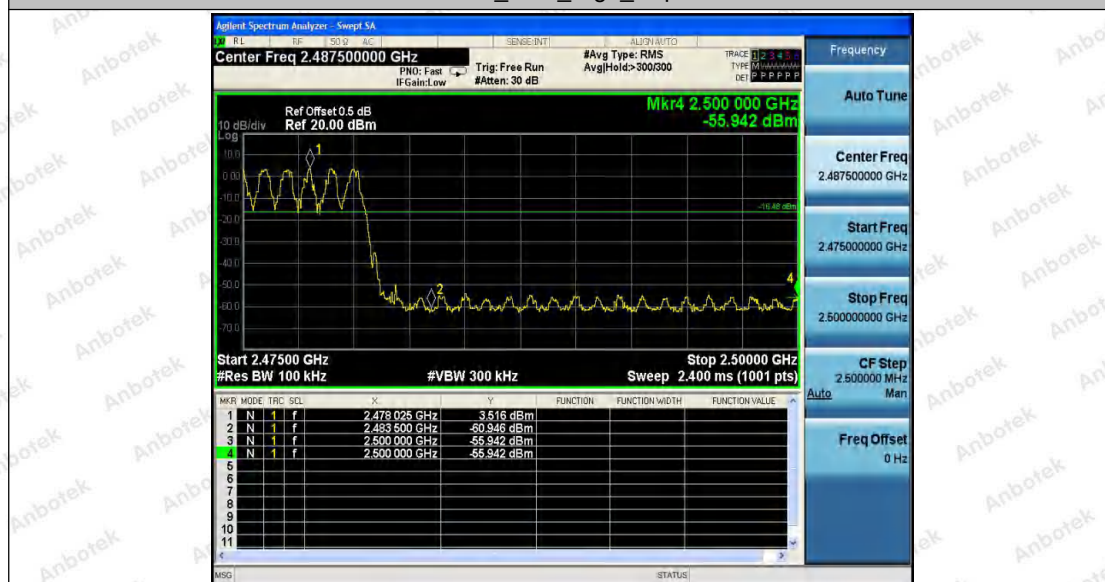
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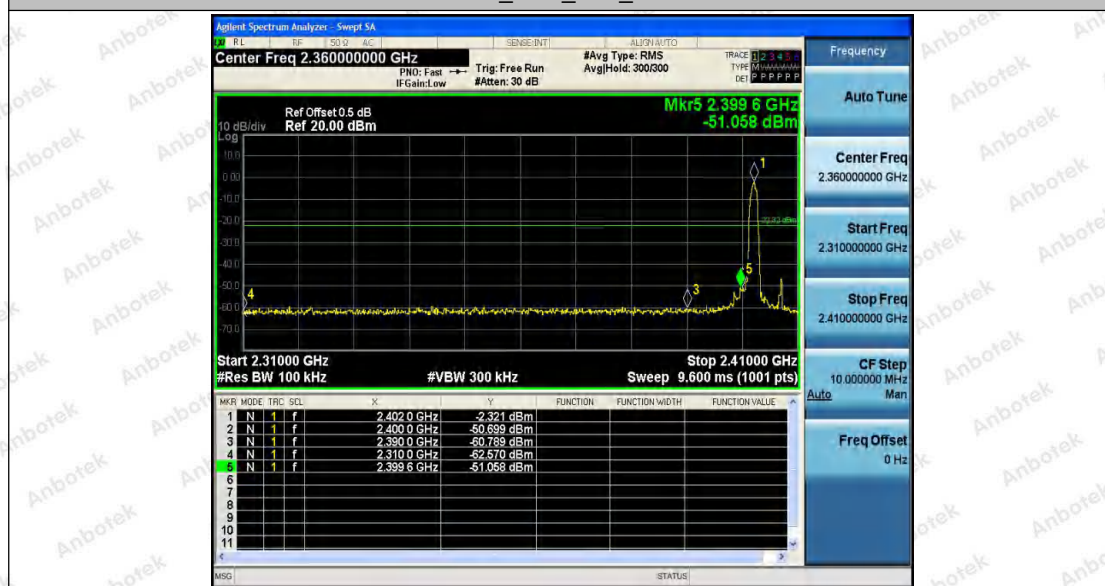
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



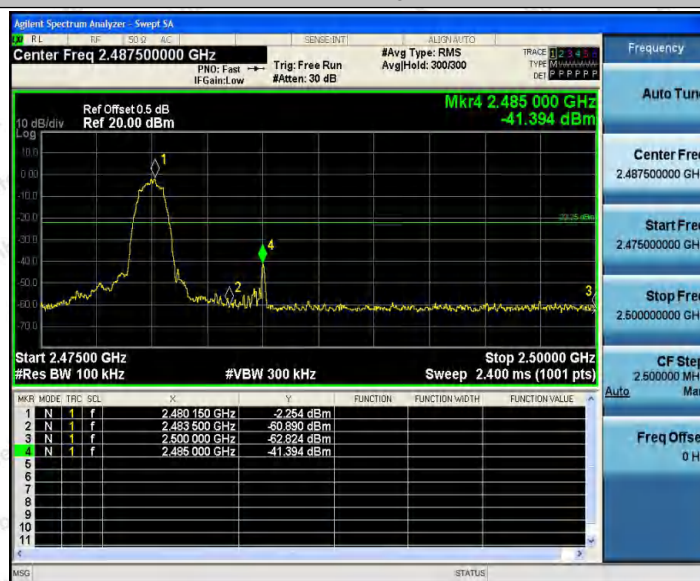
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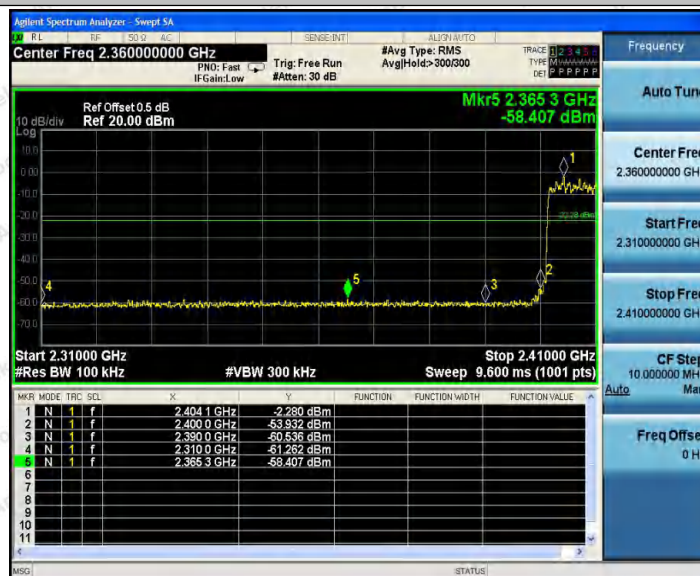
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



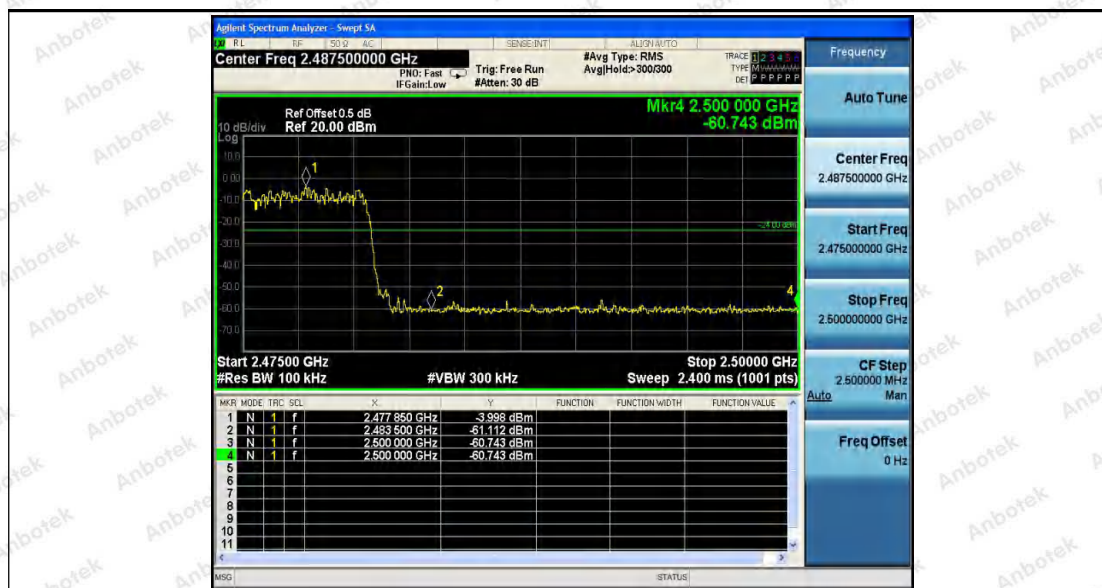
2DH5_Ant1_High_Hop

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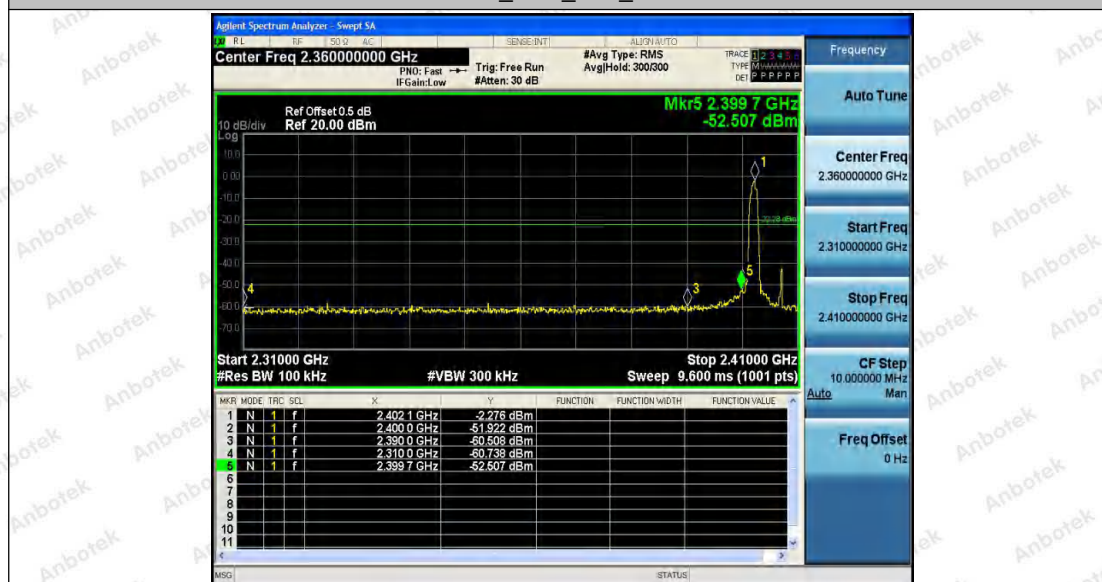
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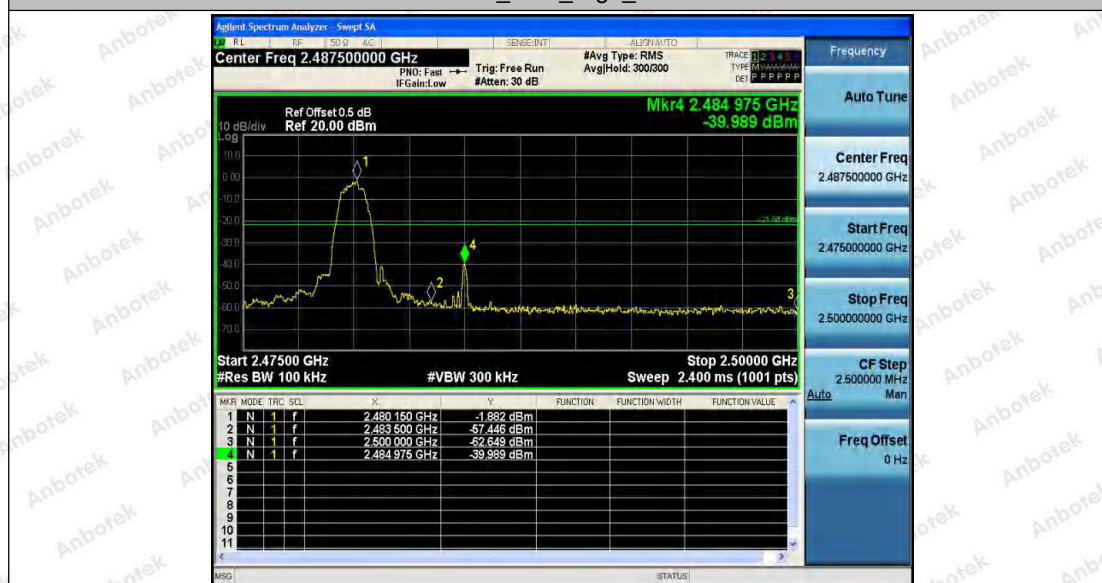
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

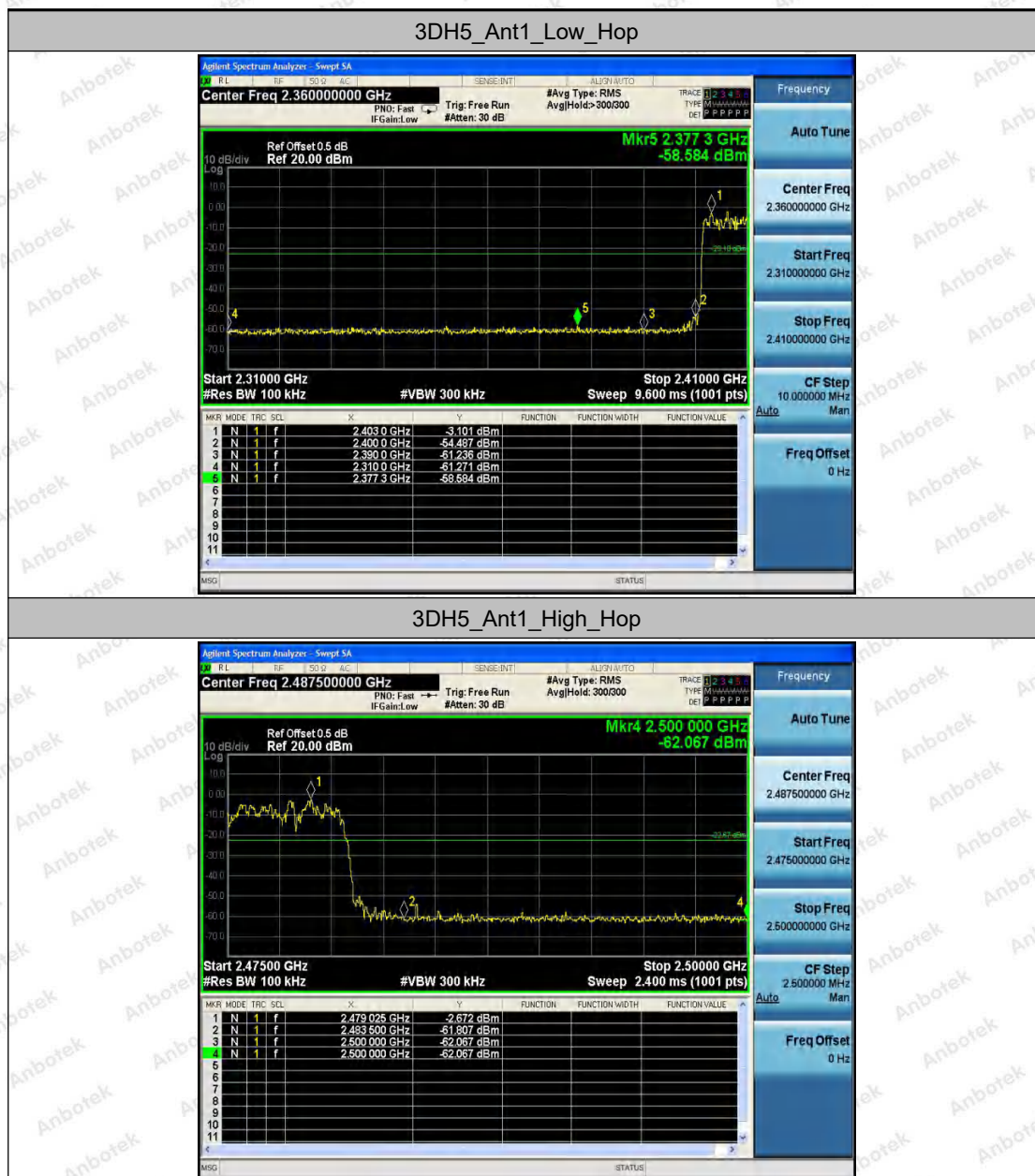


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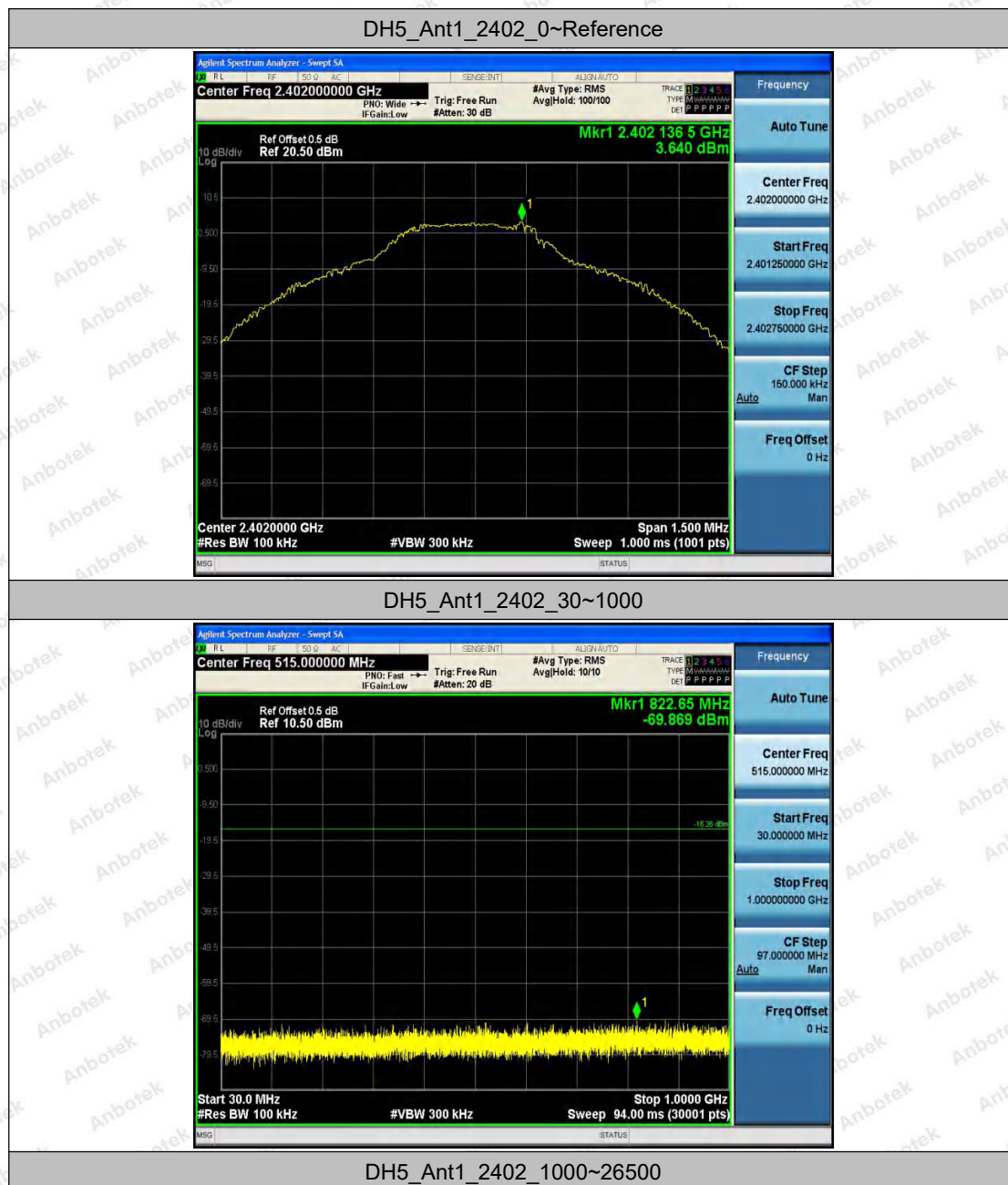
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.64	3.64	---	PASS
			30~1000	3.64	-69.87	≤-16.36	PASS
			1000~26500	3.64	-54.66	≤-16.36	PASS
		2441	Reference	4.24	4.24	---	PASS
			30~1000	4.24	-69.15	≤-15.76	PASS
			1000~26500	4.24	-54.45	≤-15.76	PASS
		2480	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-69.94	≤-16.4	PASS
			1000~26500	3.60	-54.63	≤-16.4	PASS
2DH5	Ant1	2402	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-68.7	≤-22.6	PASS
			1000~26500	-2.60	-54.52	≤-22.6	PASS
		2441	Reference	-2.22	-2.22	---	PASS
			30~1000	-2.22	-70.06	≤-22.22	PASS
			1000~26500	-2.22	-54.98	≤-22.22	PASS
		2480	Reference	-2.18	-2.18	---	PASS
			30~1000	-2.18	-69.68	≤-22.18	PASS
			1000~26500	-2.18	-54.26	≤-22.18	PASS
3DH5	Ant1	2402	Reference	-2.86	-2.86	---	PASS
			30~1000	-2.86	-69.72	≤-22.86	PASS
			1000~26500	-2.86	-54.39	≤-22.86	PASS
		2441	Reference	-1.68	-1.68	---	PASS
			30~1000	-1.68	-69.87	≤-21.68	PASS
			1000~26500	-1.68	-54.42	≤-21.68	PASS
		2480	Reference	-1.95	-1.95	---	PASS
			30~1000	-1.95	-70.08	≤-21.95	PASS
			1000~26500	-1.95	-53.87	≤-21.95	PASS

Test Graphs

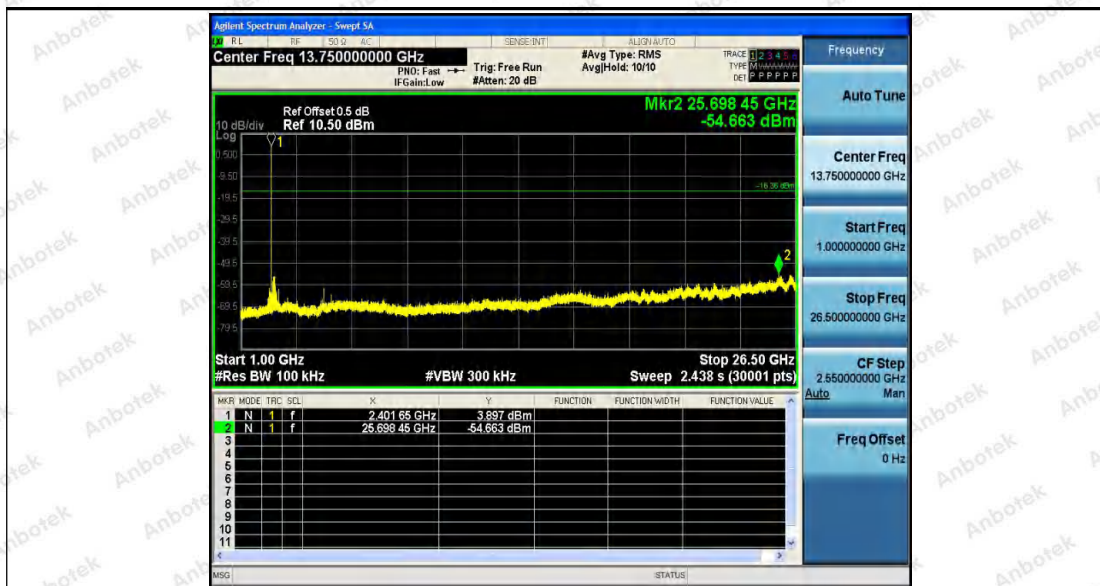


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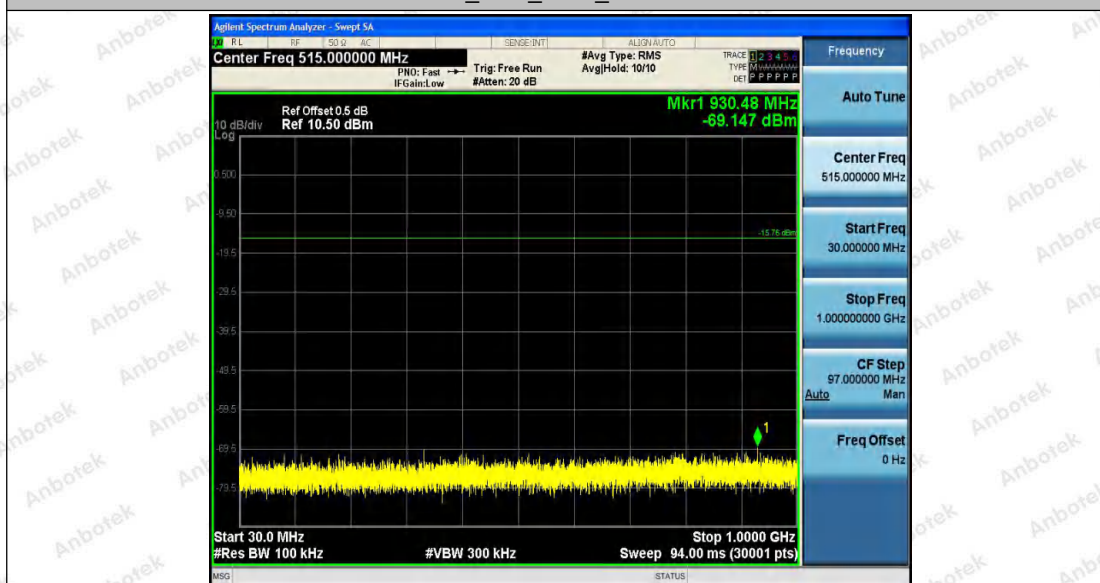
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



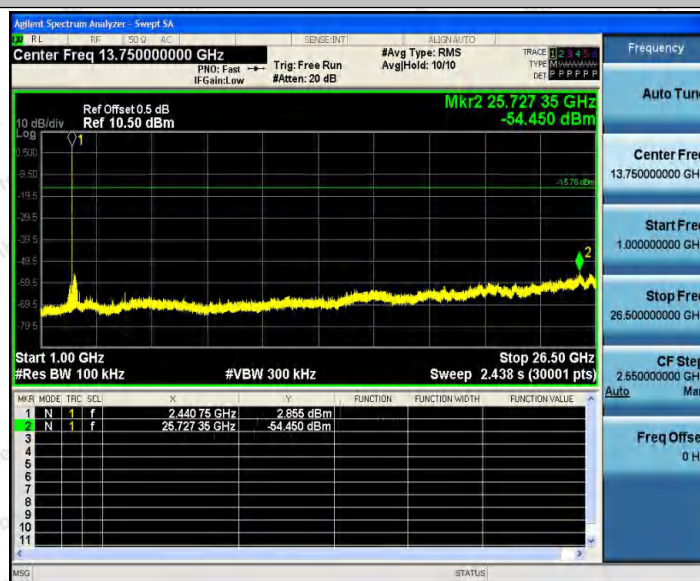
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



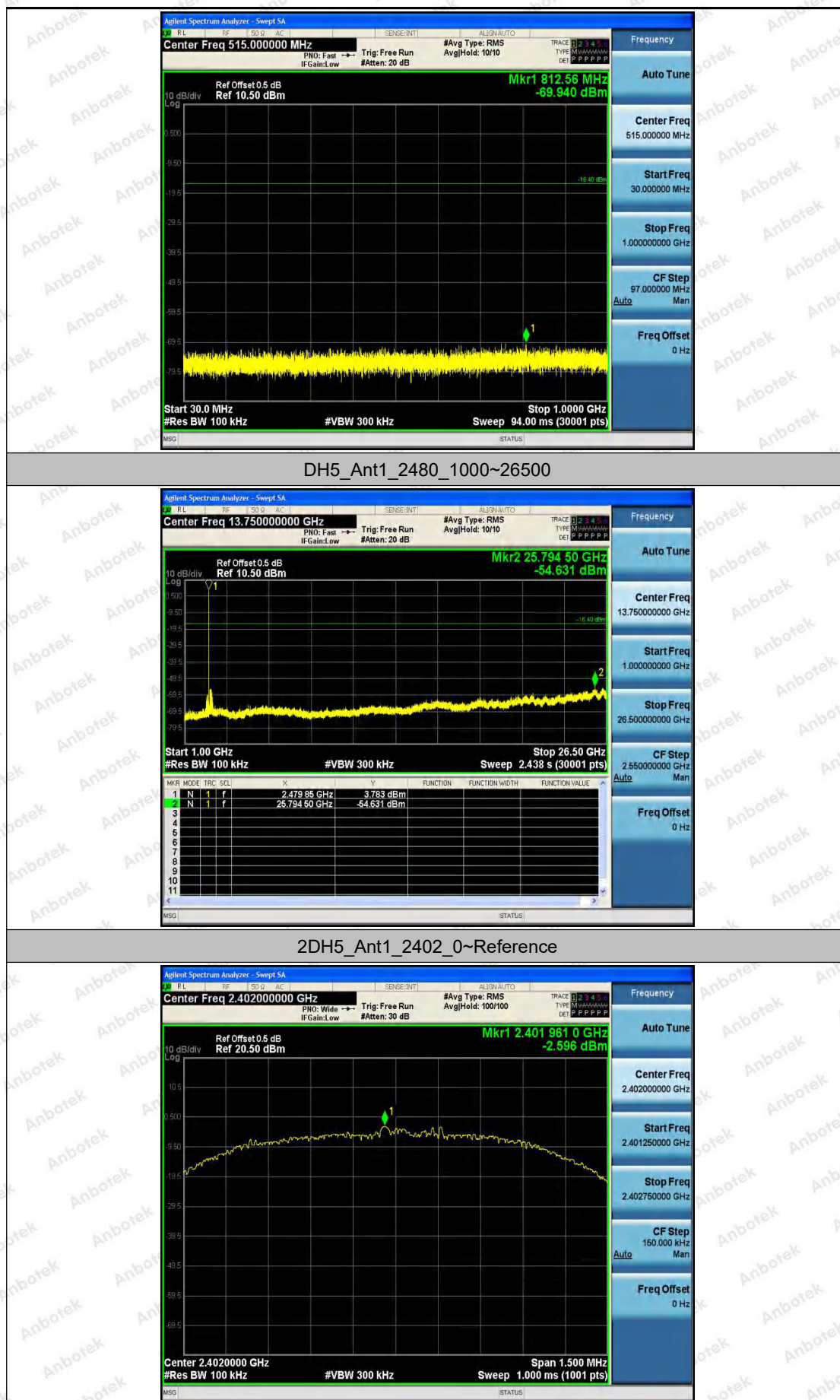
DH5_Ant1_2480_30~1000

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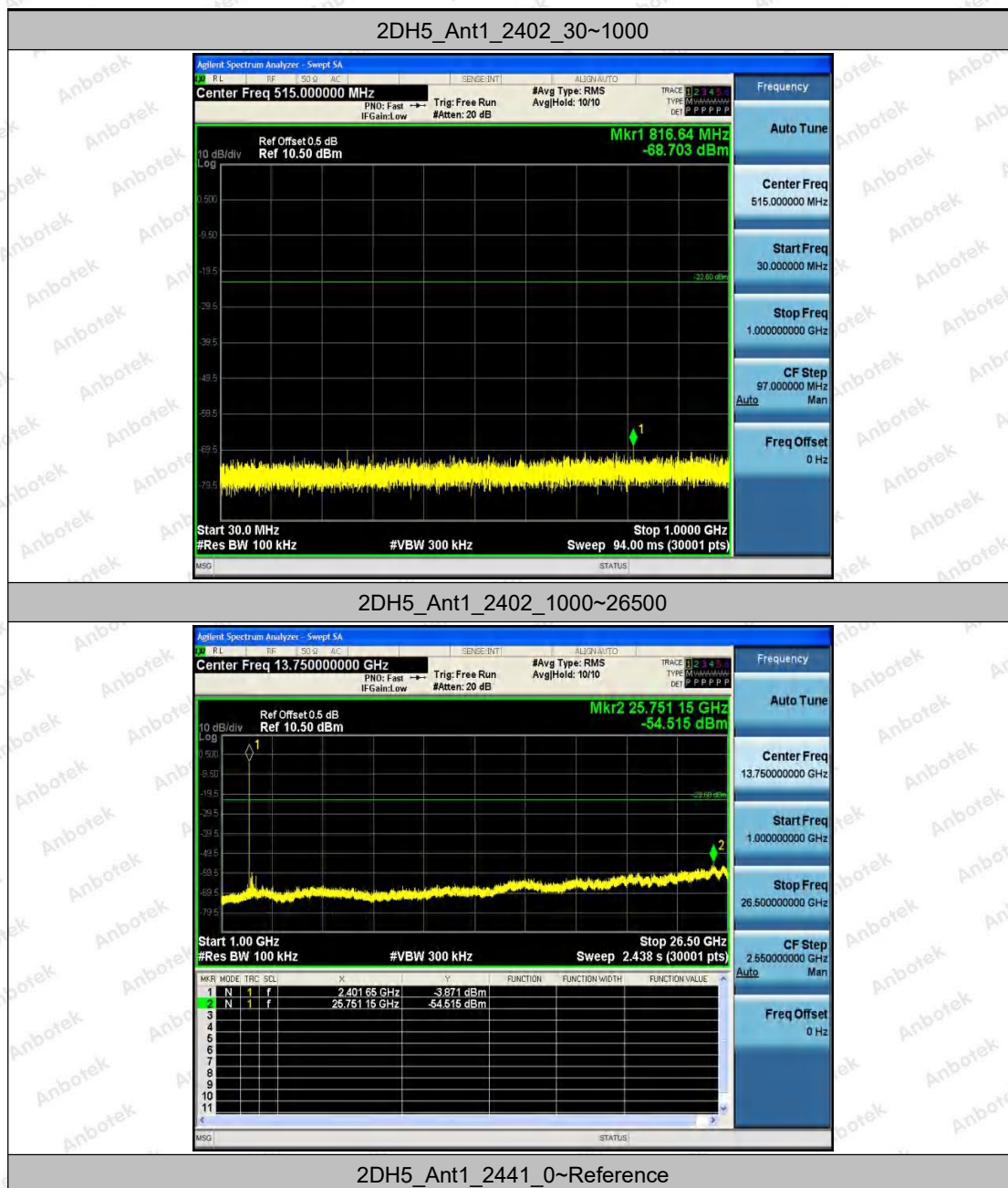


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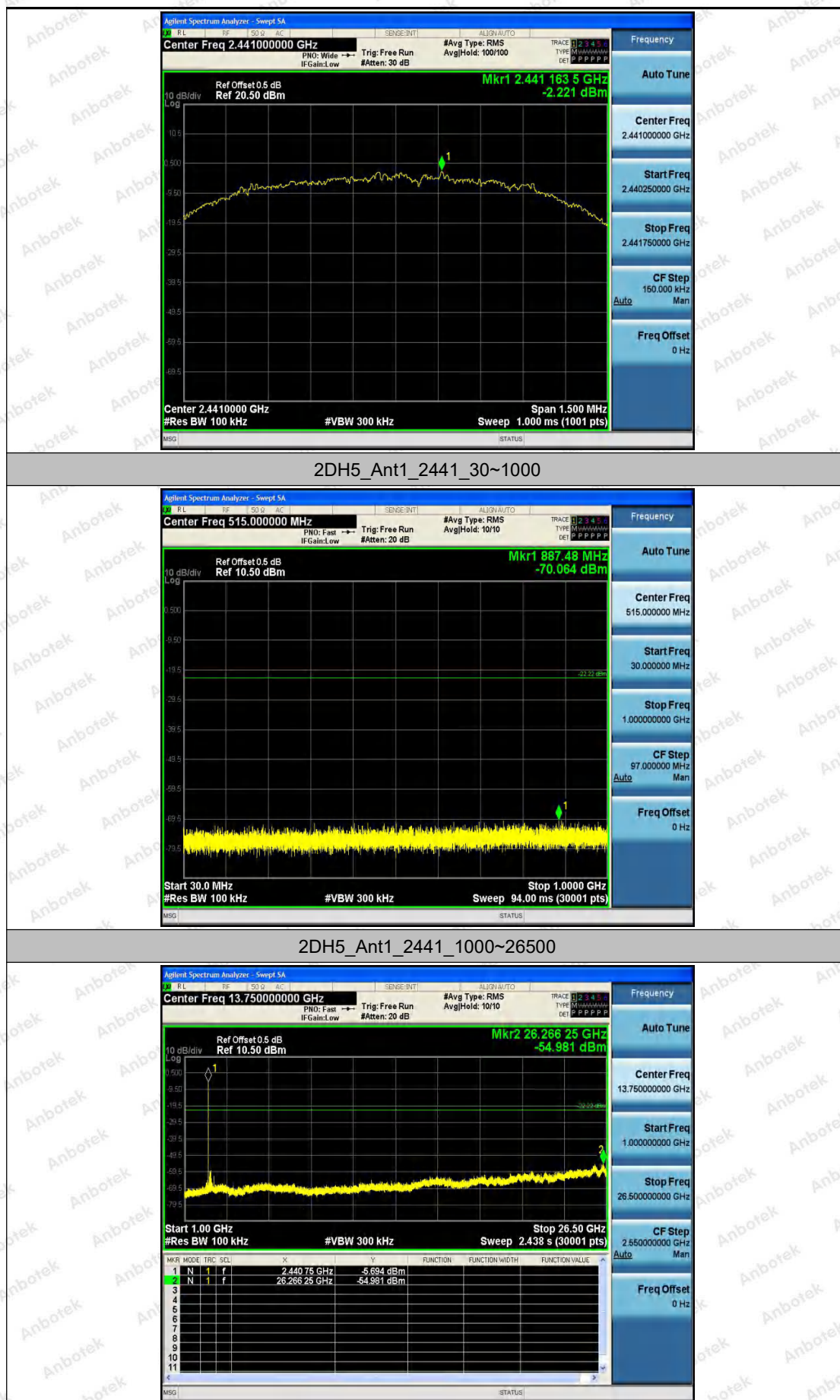


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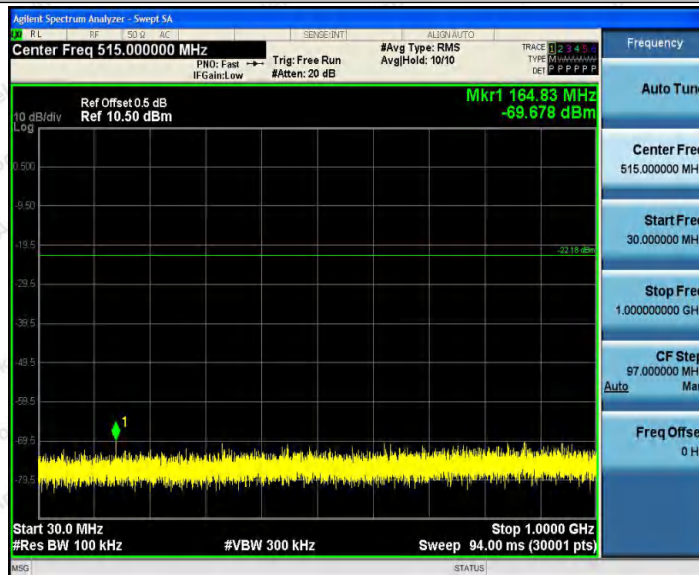
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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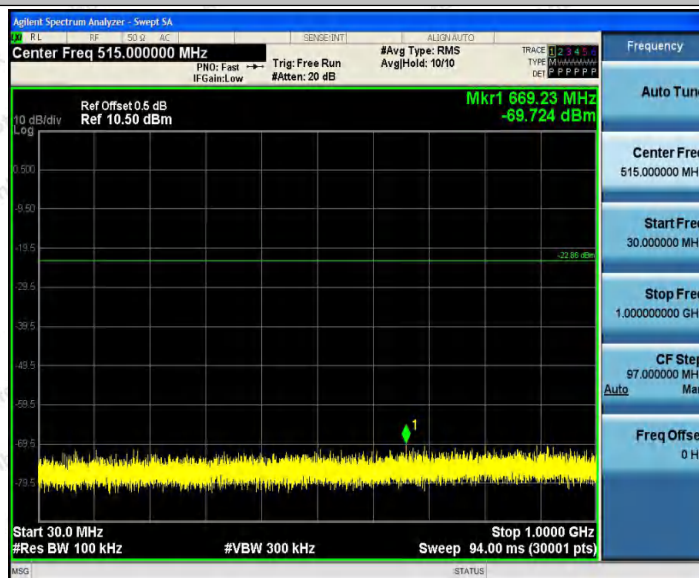
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



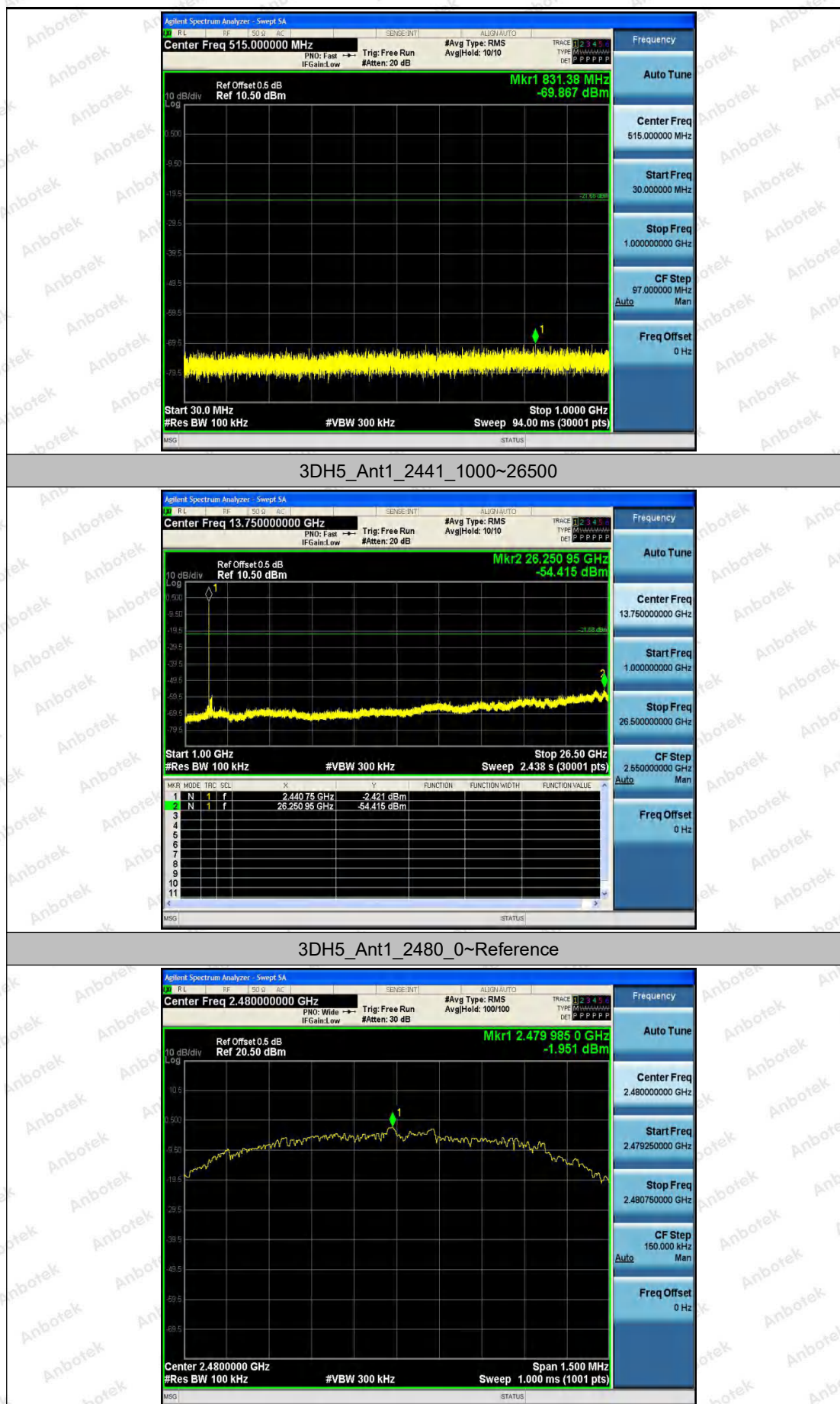
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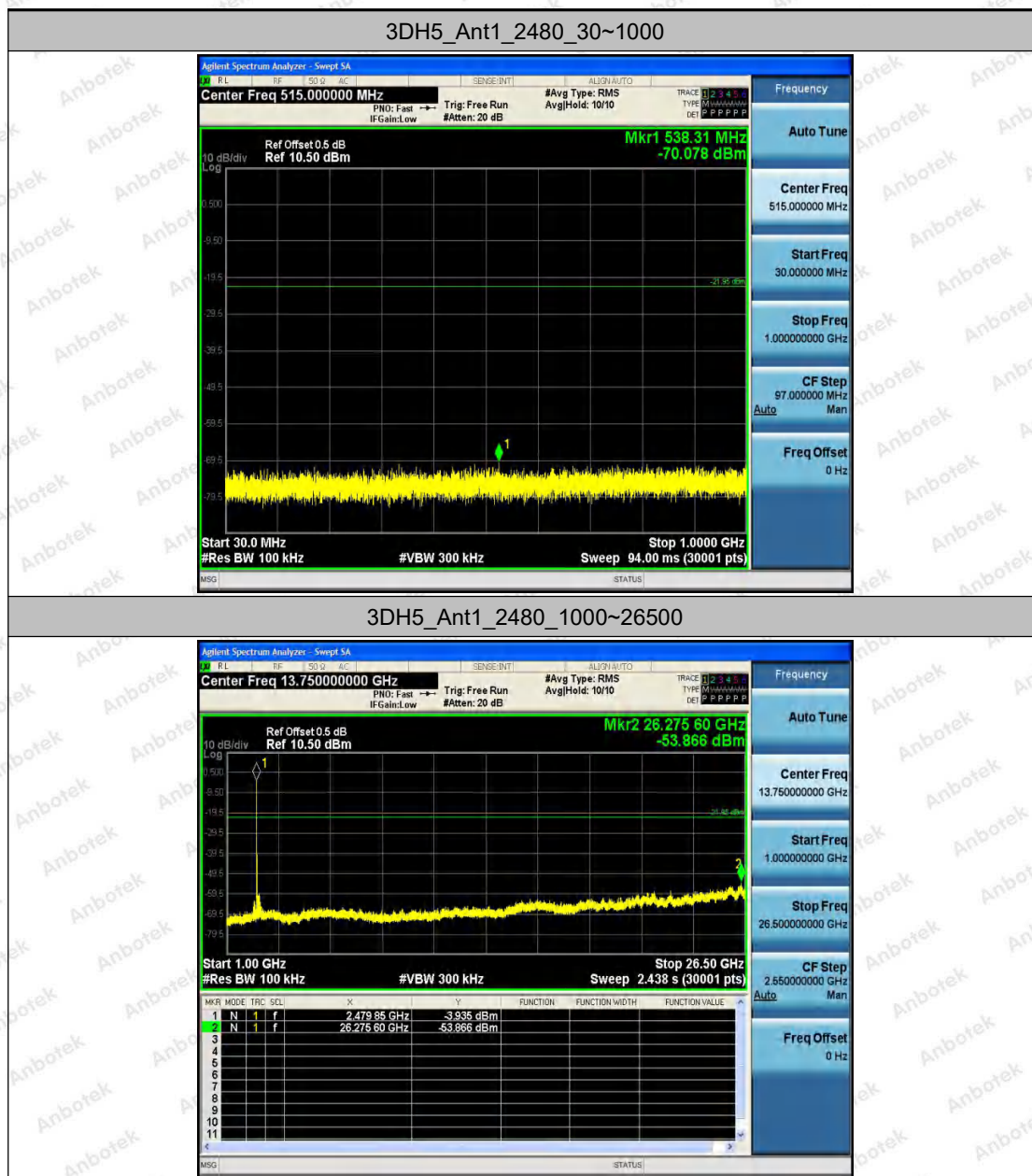


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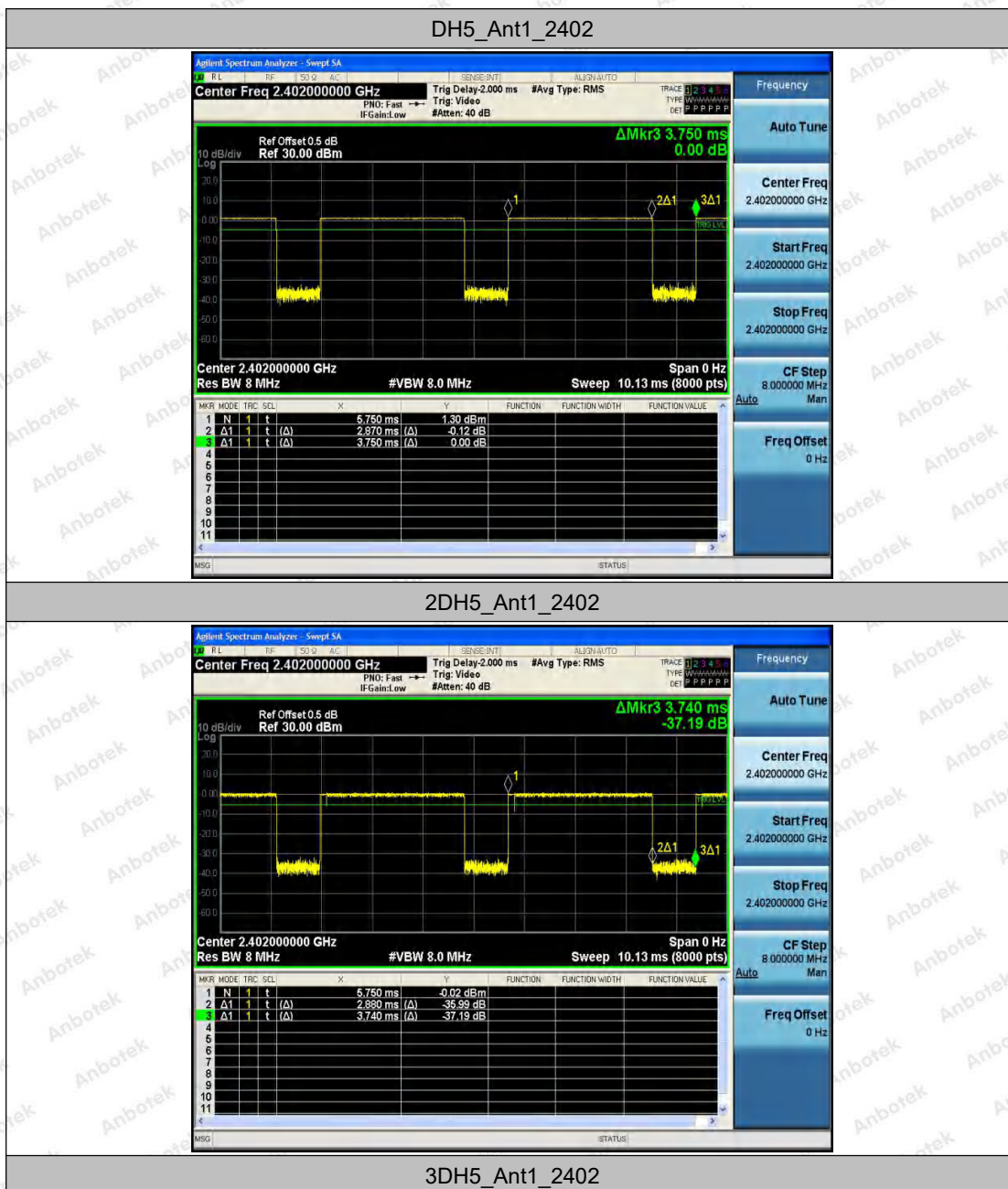
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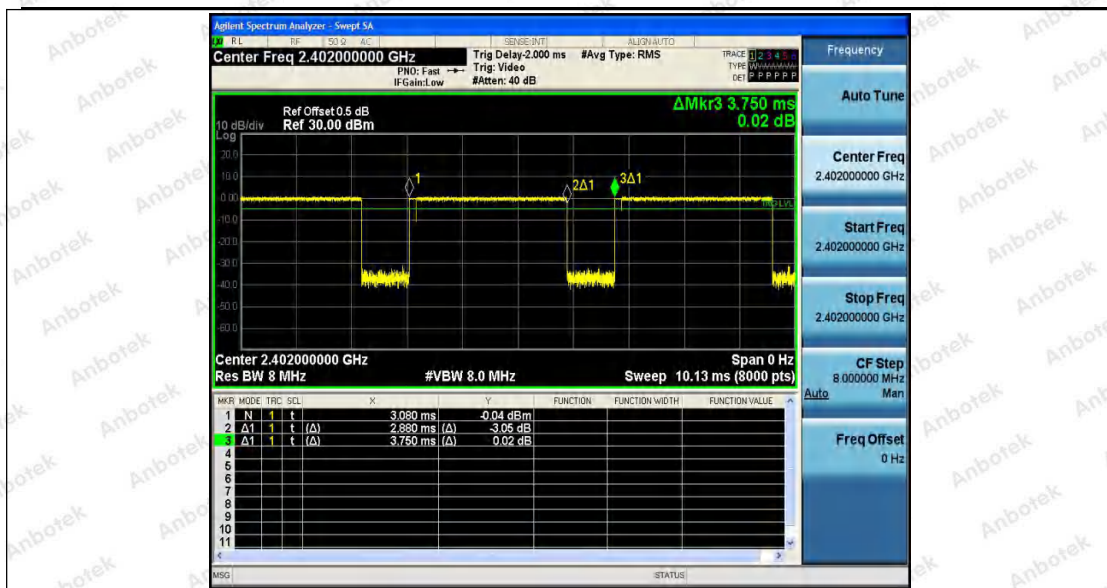
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs





---End---