

Appendix Test Data

Report No.:	18220WC10278901	Test Sample No.:	1-2-2
Start Test Date:	2021.12.17	Finish Test Date:	2021.12.21
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
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	0.945	2401.535	2402.480	---	PASS
		2441	0.951	2440.529	2441.480	---	PASS
		2480	0.939	2479.535	2480.474	---	PASS
2DH5	Ant1	2402	1.320	2401.331	2402.651	---	PASS
		2441	1.317	2440.337	2441.654	---	PASS
		2480	1.332	2479.328	2480.660	---	PASS
3DH5	Ant1	2402	1.269	2401.352	2402.621	---	PASS
		2441	1.299	2440.346	2441.645	---	PASS
		2480	1.293	2479.346	2480.639	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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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	0.89804	2401.547	2402.445	---	PASS
		2441	0.89038	2440.549	2441.440	---	PASS
		2480	0.90101	2479.548	2480.449	---	PASS
2DH5	Ant1	2402	1.2009	2401.393	2402.594	---	PASS
		2441	1.1920	2440.399	2441.591	---	PASS
		2480	1.1851	2479.402	2480.587	---	PASS
3DH5	Ant1	2402	1.2106	2401.385	2402.595	---	PASS
		2441	1.1940	2440.394	2441.588	---	PASS
		2480	1.1922	2479.397	2480.589	---	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

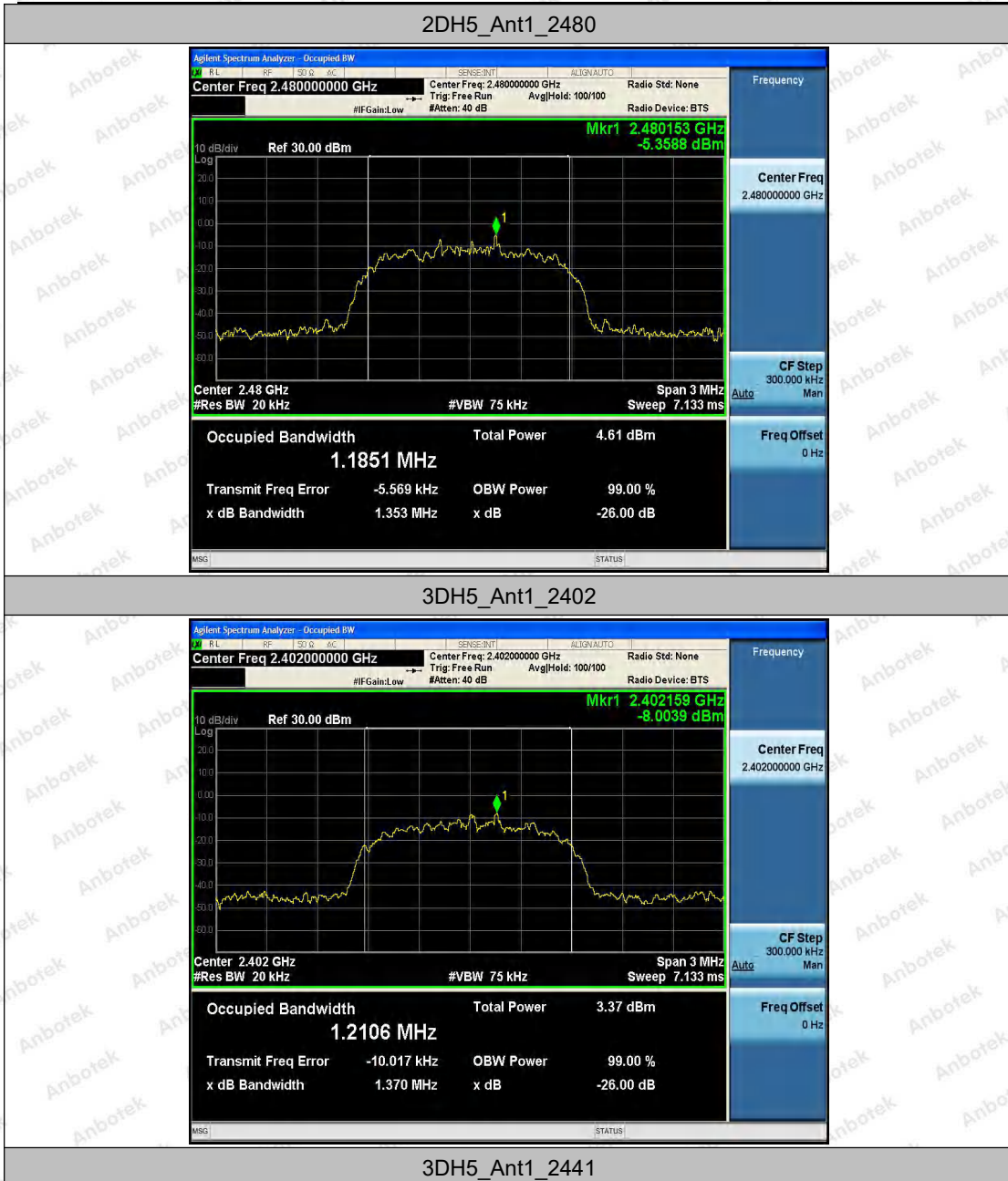


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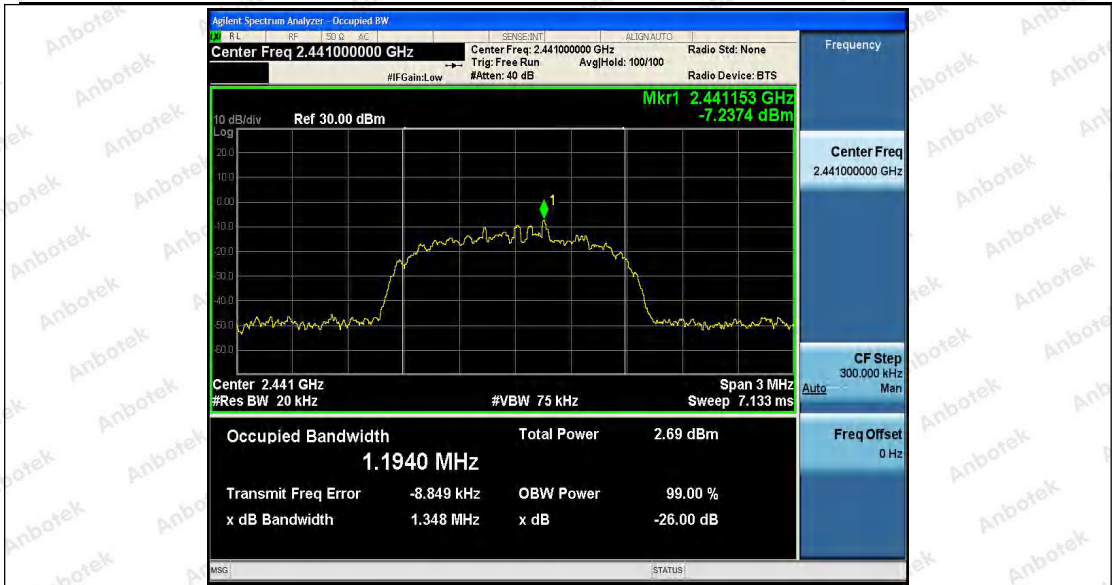


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3DH5_Ant1_2480



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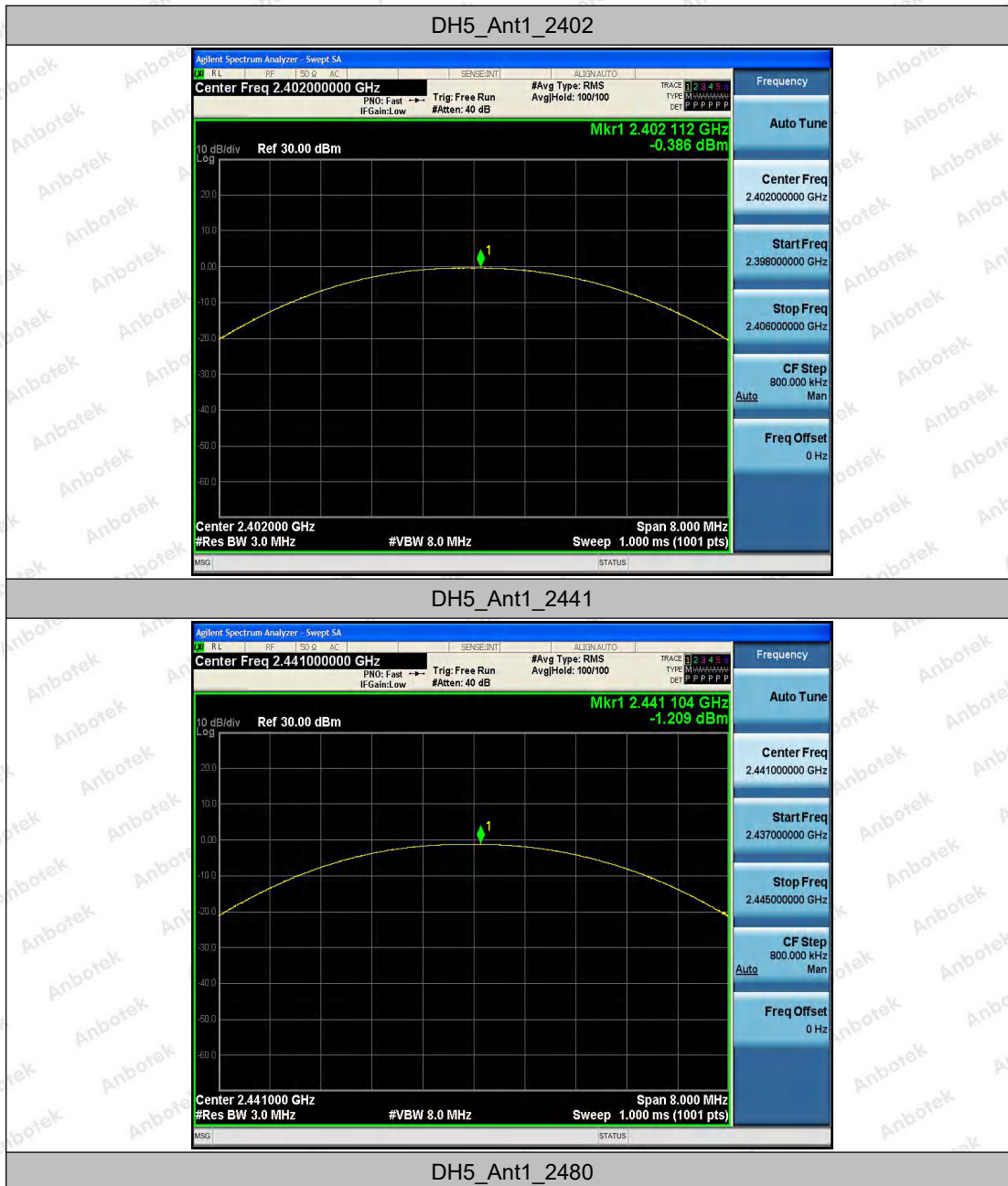
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.39	≤20.97	PASS
		2441	-1.21	≤20.97	PASS
		2480	0.34	≤20.97	PASS
2DH5	Ant1	2402	-0.96	≤20.97	PASS
		2441	-1.65	≤20.97	PASS
		2480	-0.37	≤20.97	PASS
3DH5	Ant1	2402	-1.67	≤20.97	PASS
		2441	-2.48	≤20.97	PASS
		2480	-1.46	≤20.97	PASS

Test Graphs



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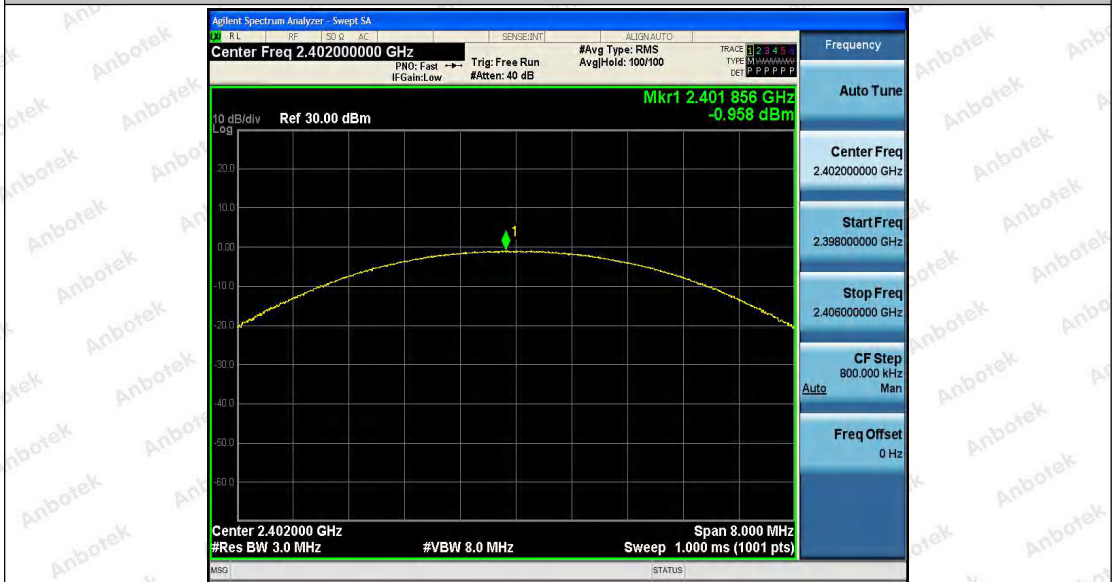
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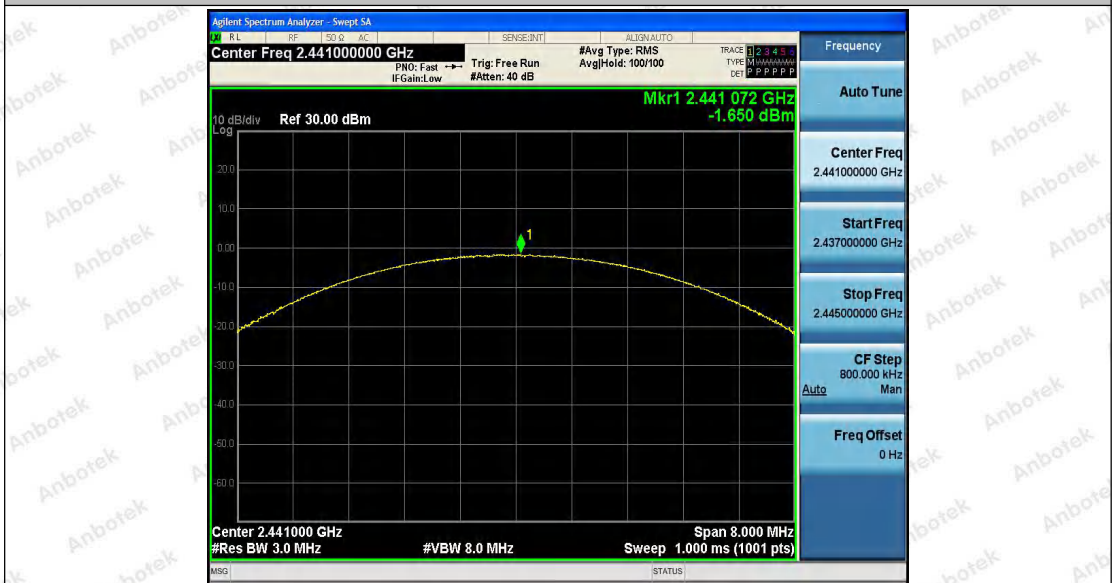
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2DH5_Ant1_2402



2DH5_Ant1_2441

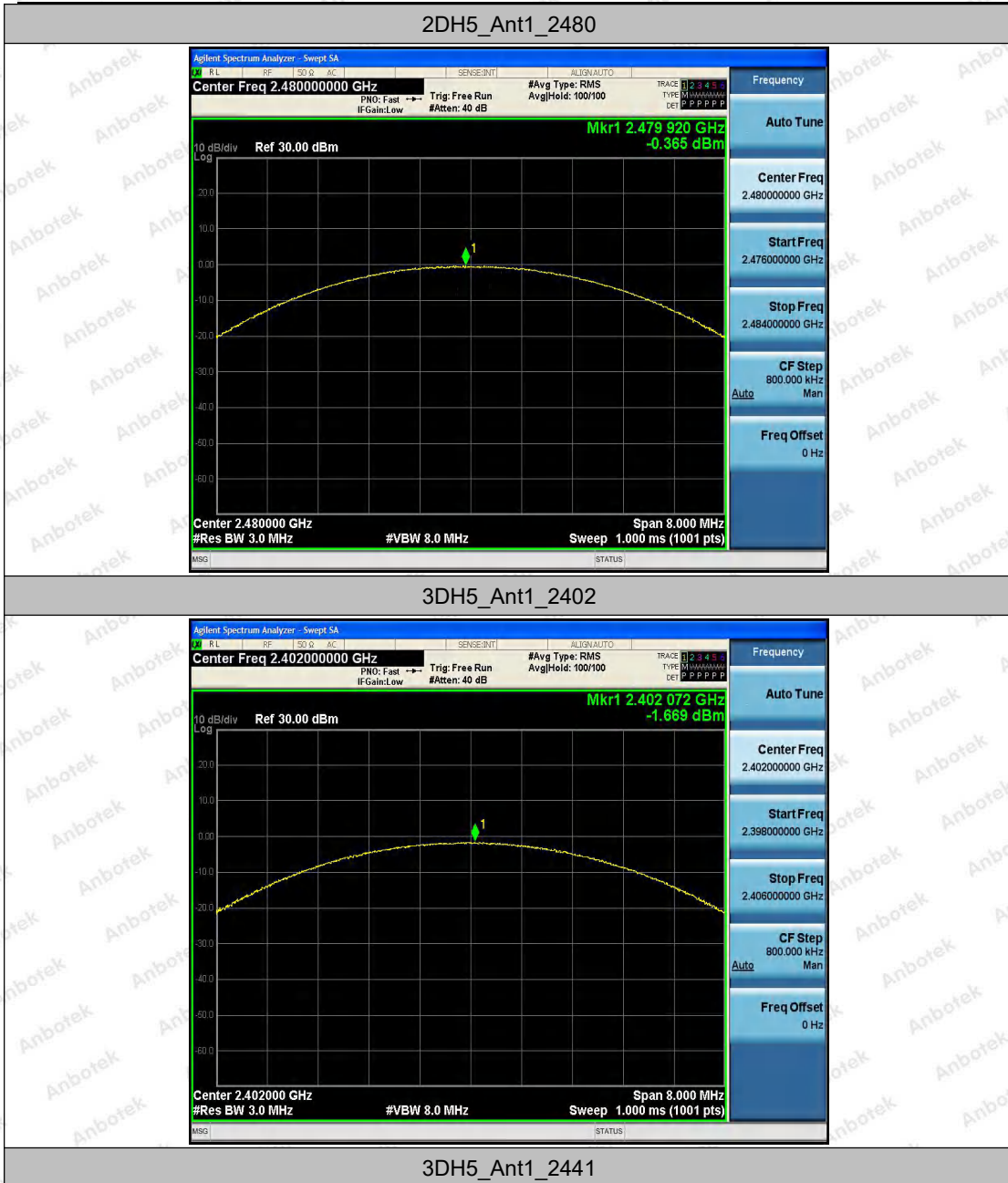


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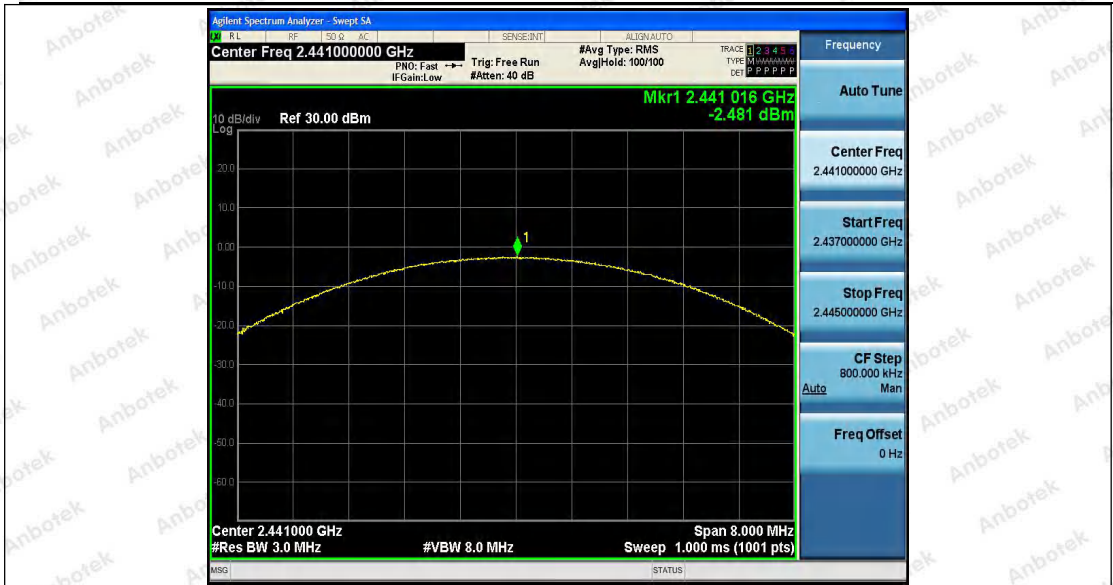
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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥0.951	PASS
2DH5	Ant1	Hop	1.158	≥0.888	PASS
3DH5	Ant1	Hop	0.964	≥0.866	PASS

Test Graphs



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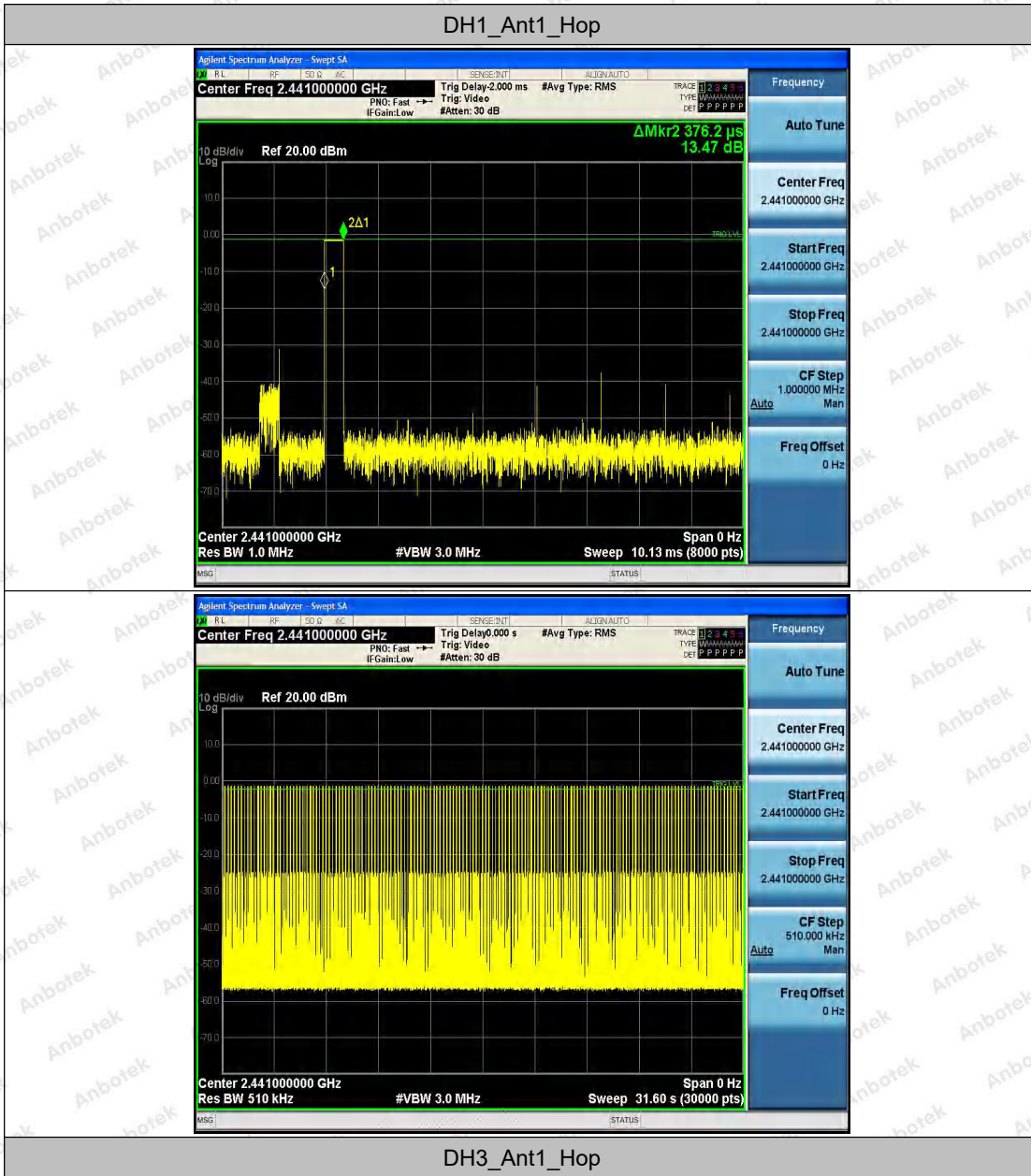
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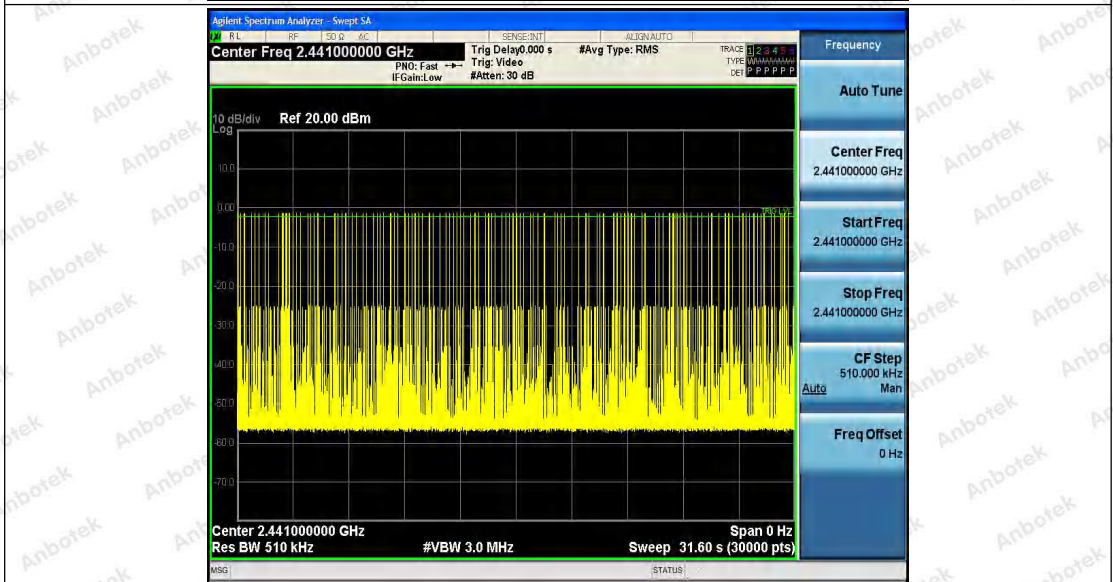
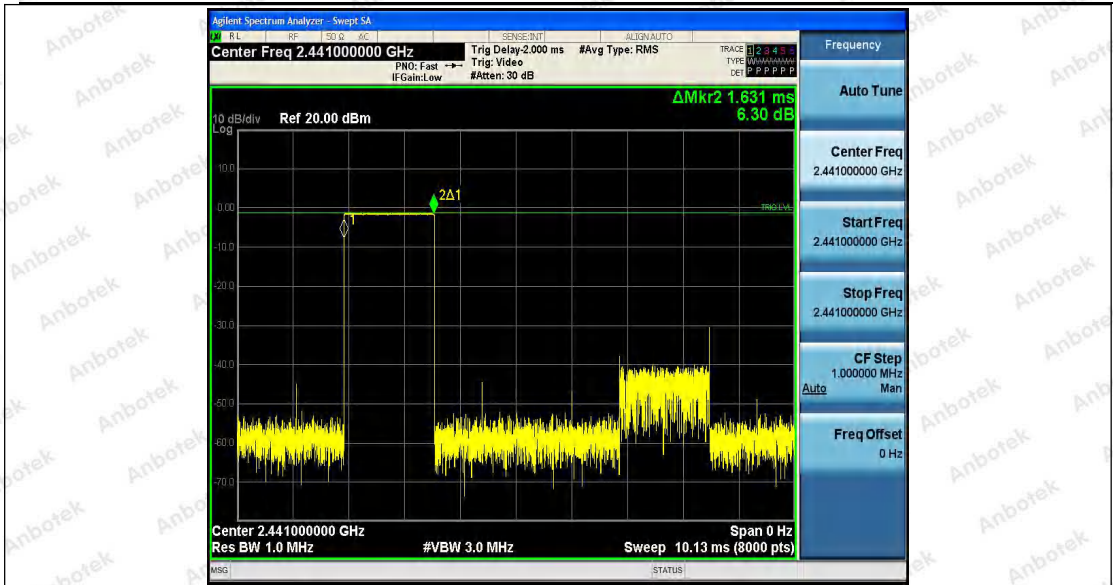
Appendix E: Time of occupancy

Test Result

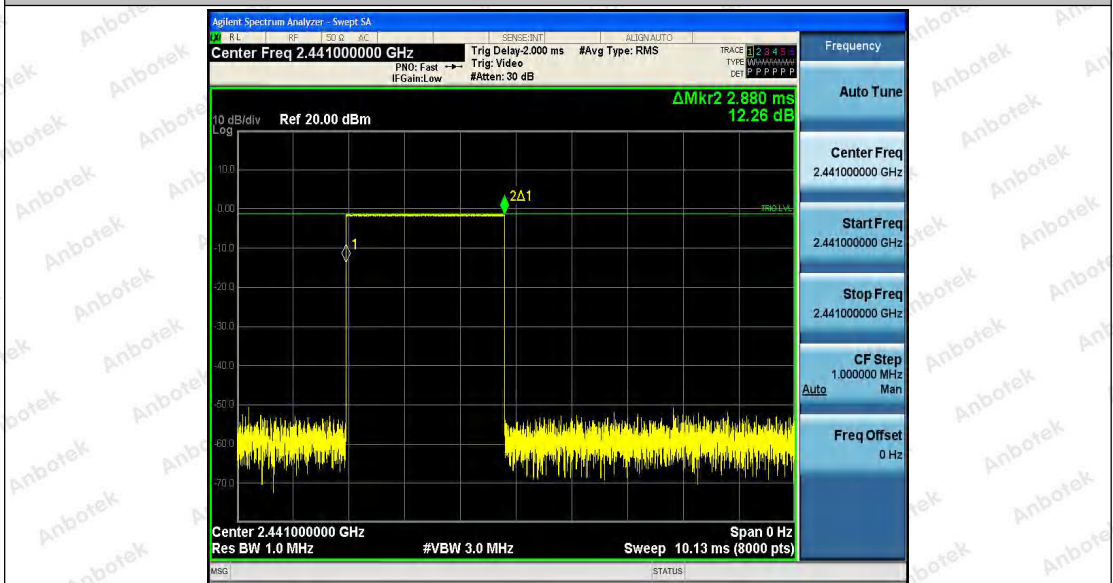
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	313	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	114	0.328	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.88	105	0.303	≤0.4	PASS
3DH1	Ant1	Hop	0.39	316	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.64	159	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.89	117	0.338	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

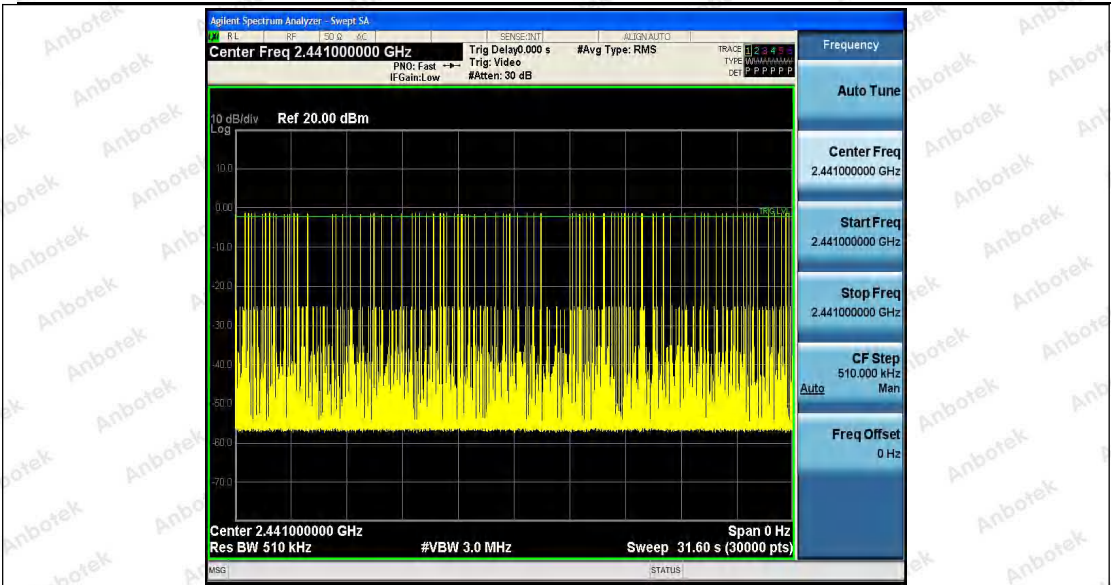


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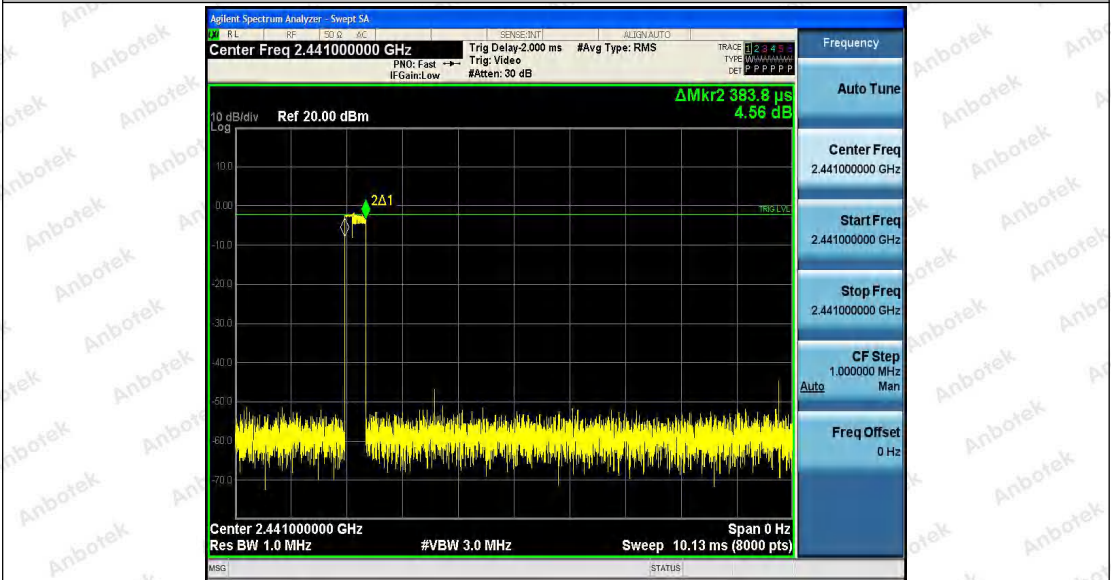
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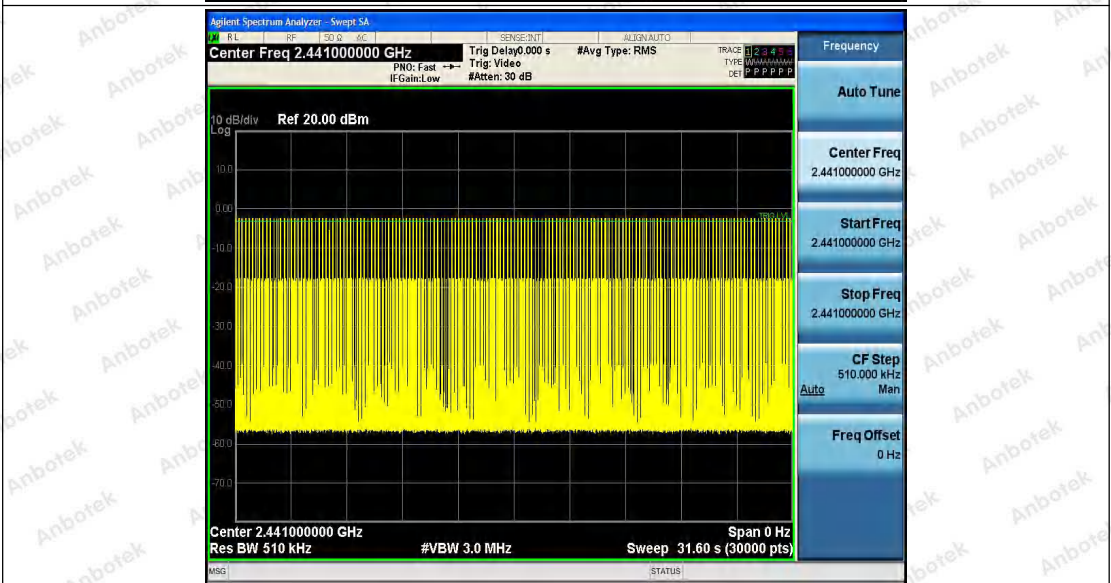
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2DH1_Ant1_Hop



2DH3_Ant1_Hop



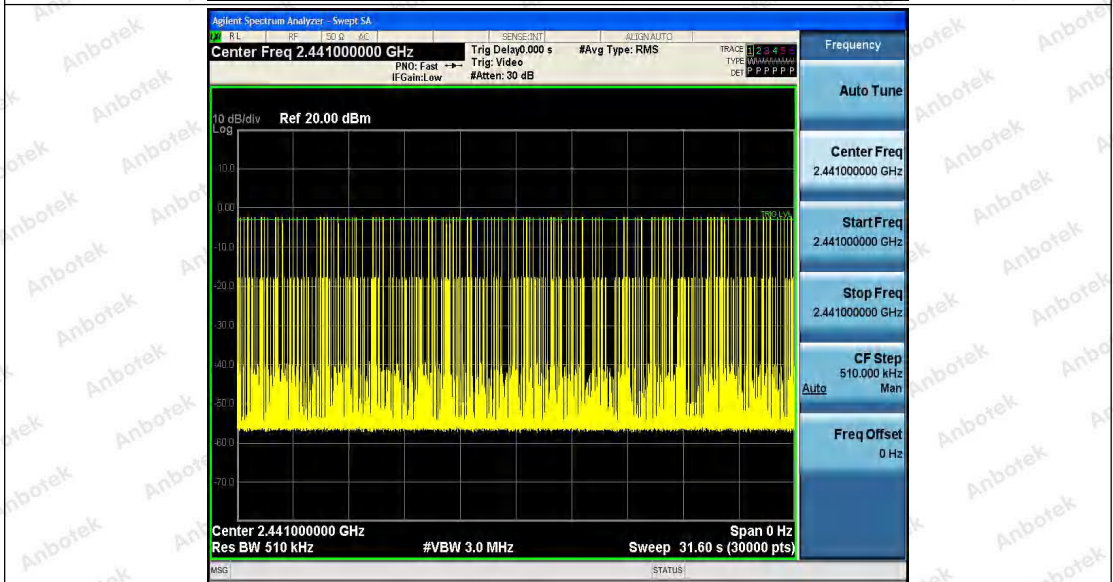
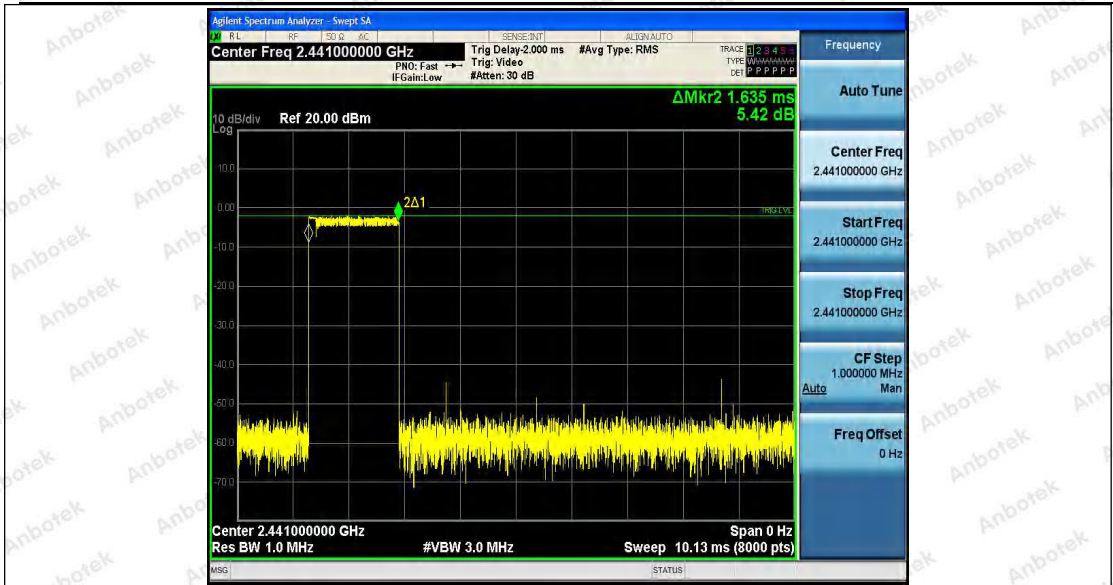
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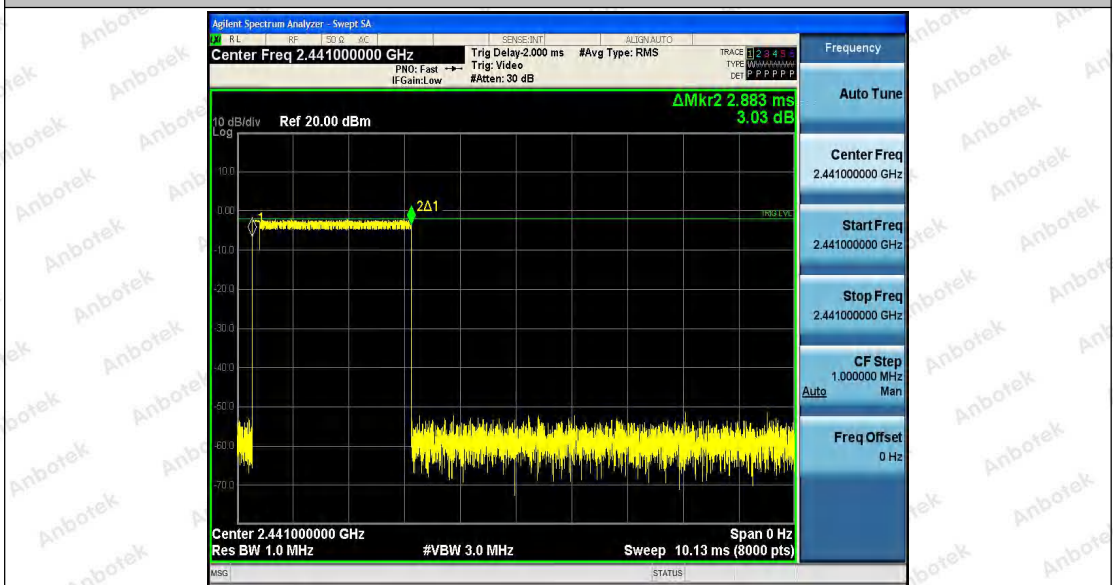
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2DH5_Ant1_Hop

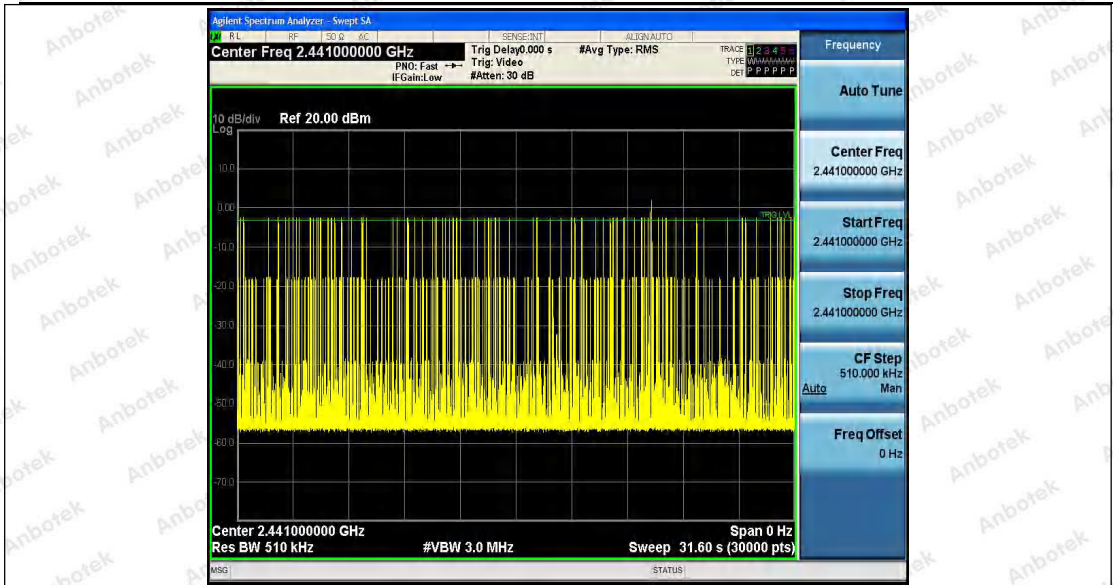


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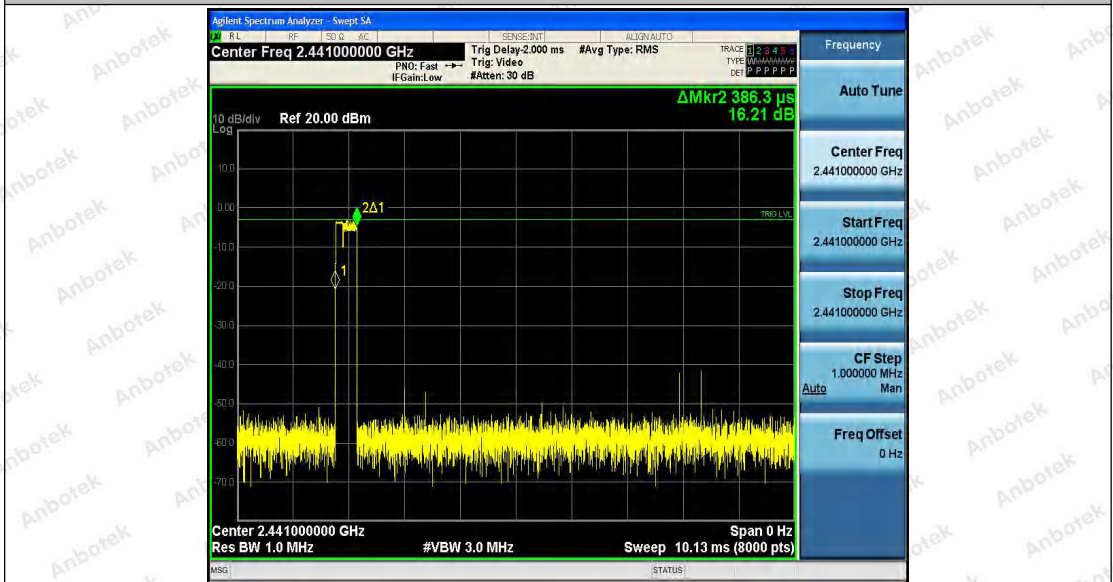
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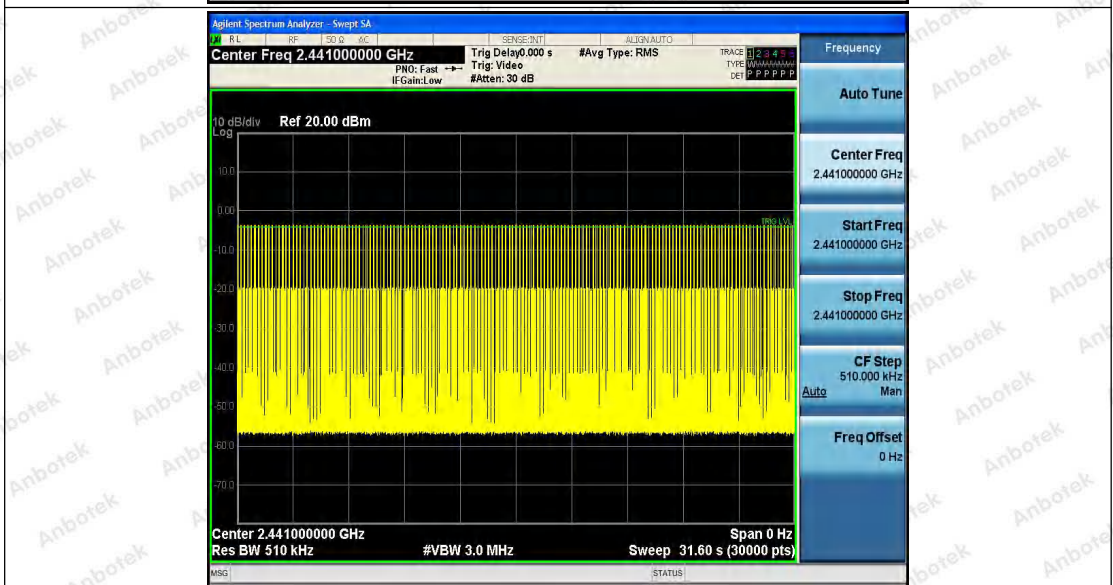
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3DH1_Ant1_Hop



3DH3_Ant1_Hop



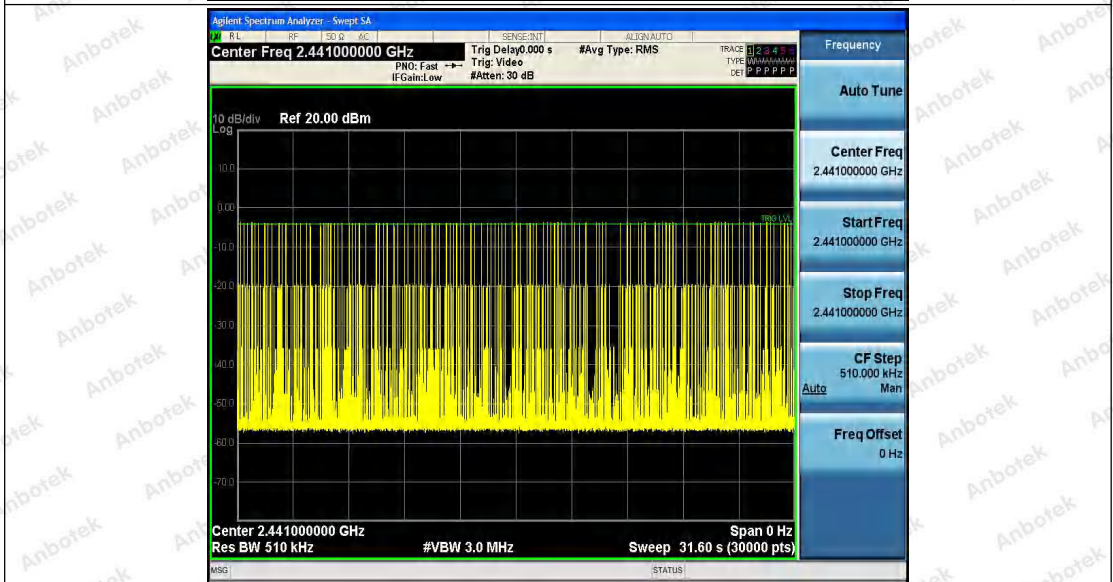
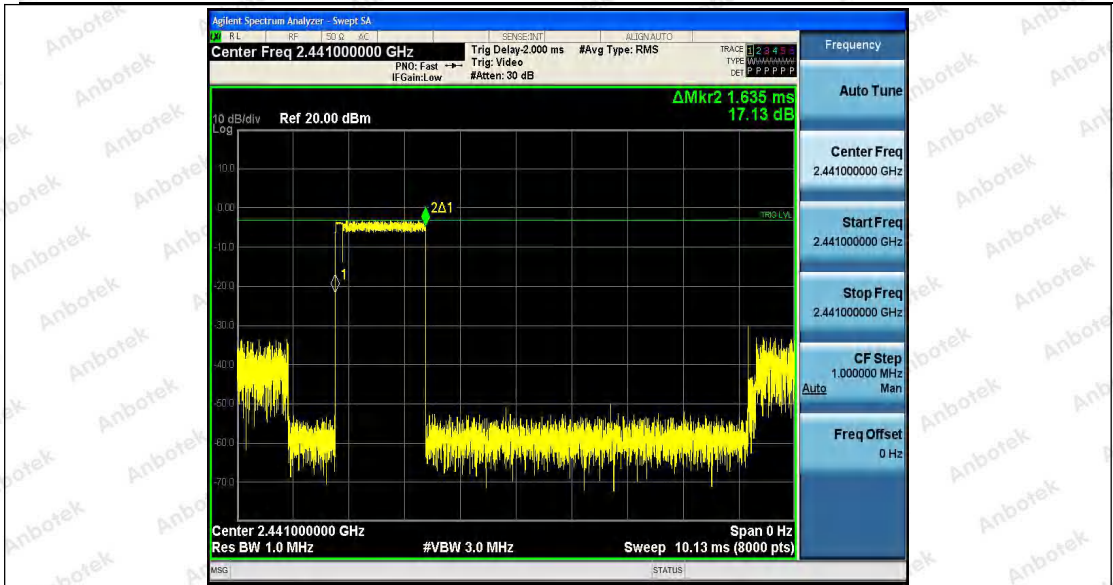
3DH3_Ant1_Hop

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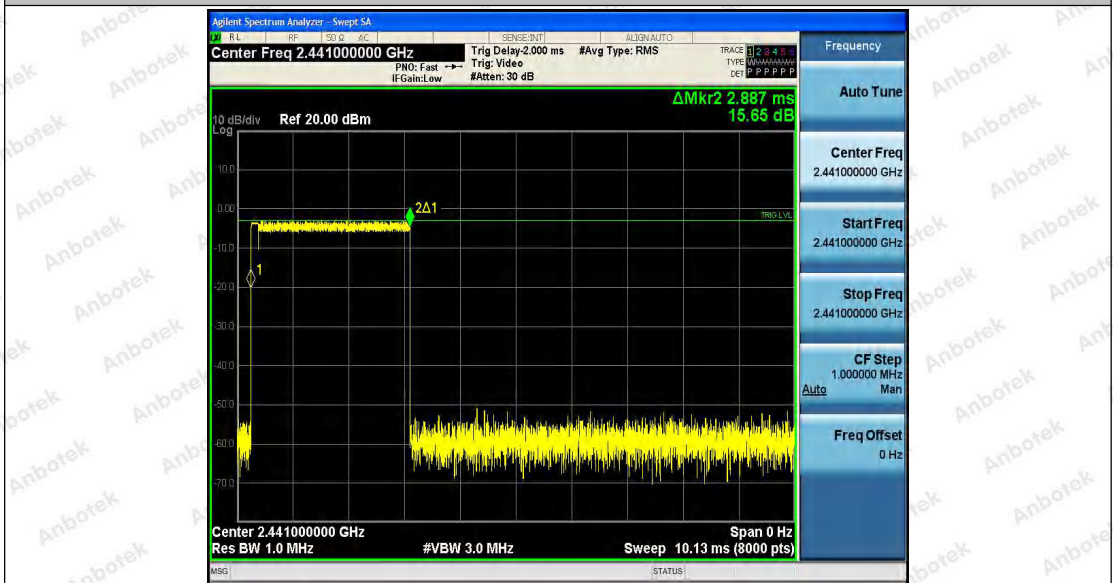
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3DH5_Ant1_Hop

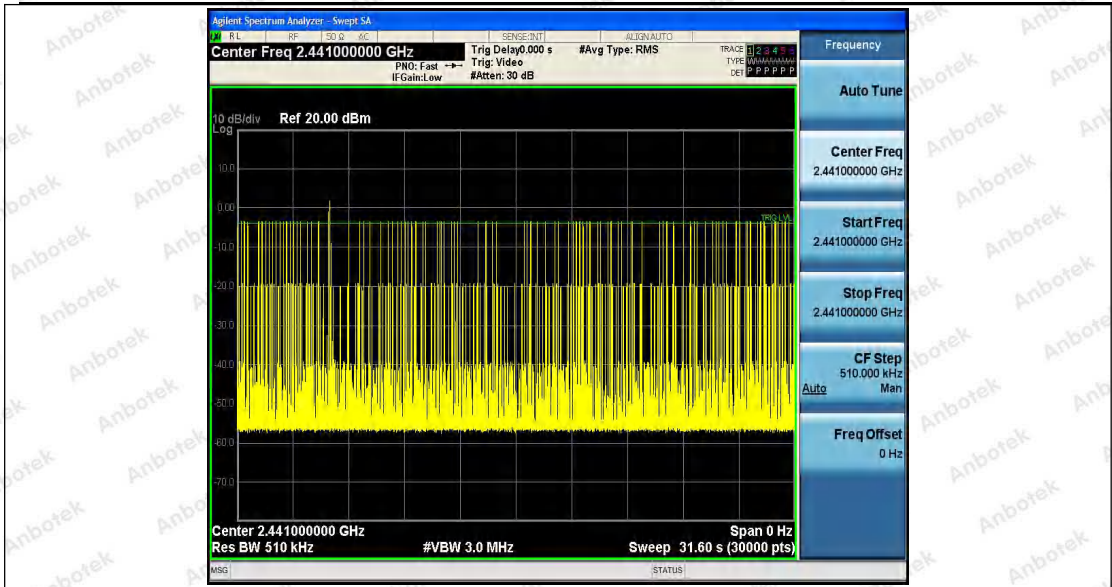


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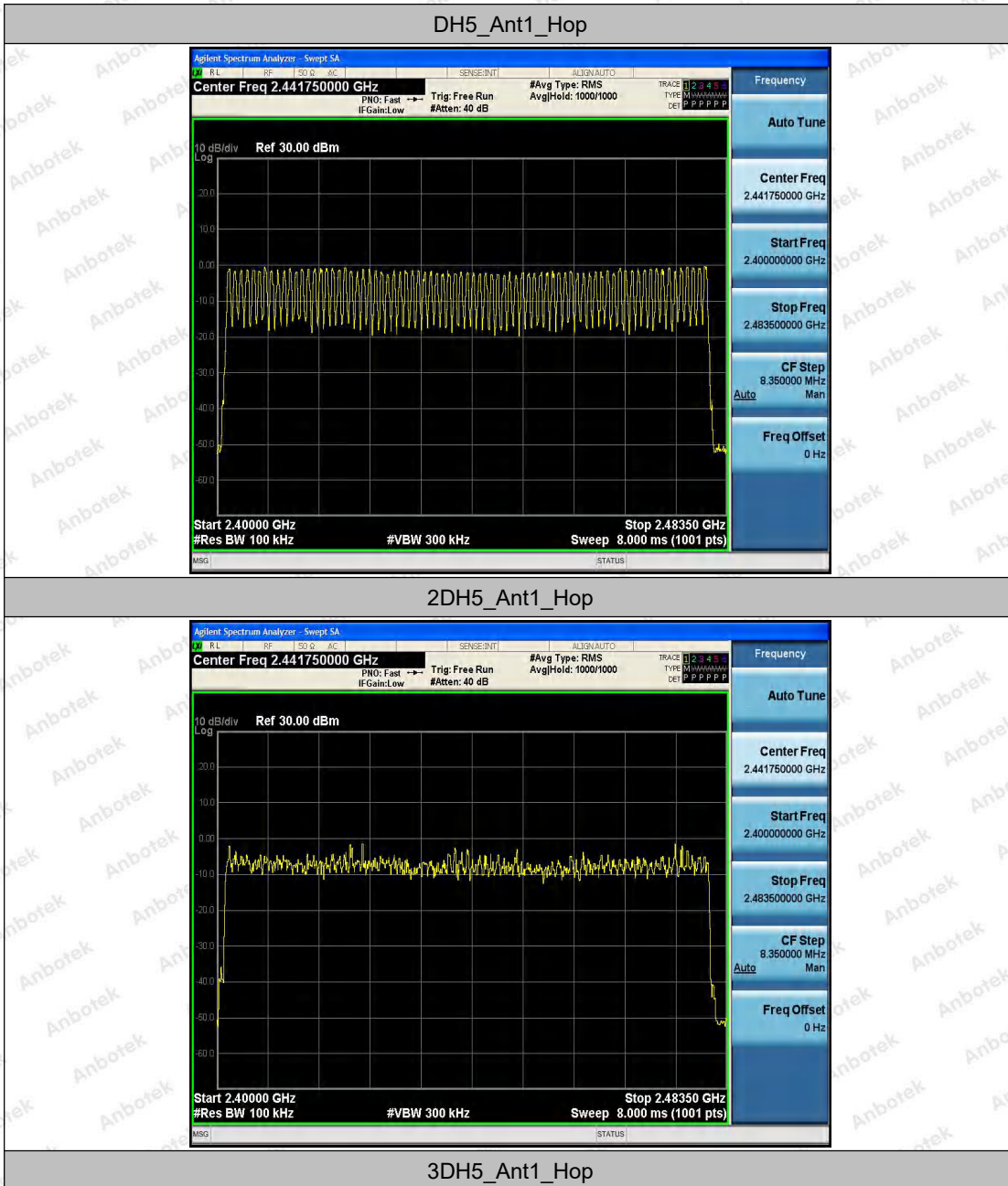
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Appendix F: Number of hopping channels

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

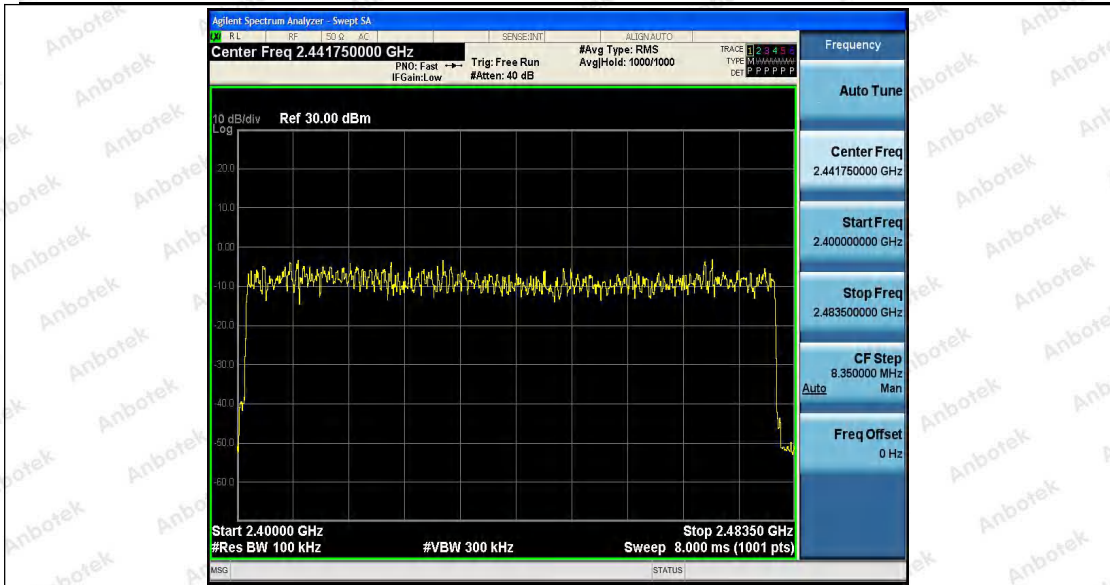


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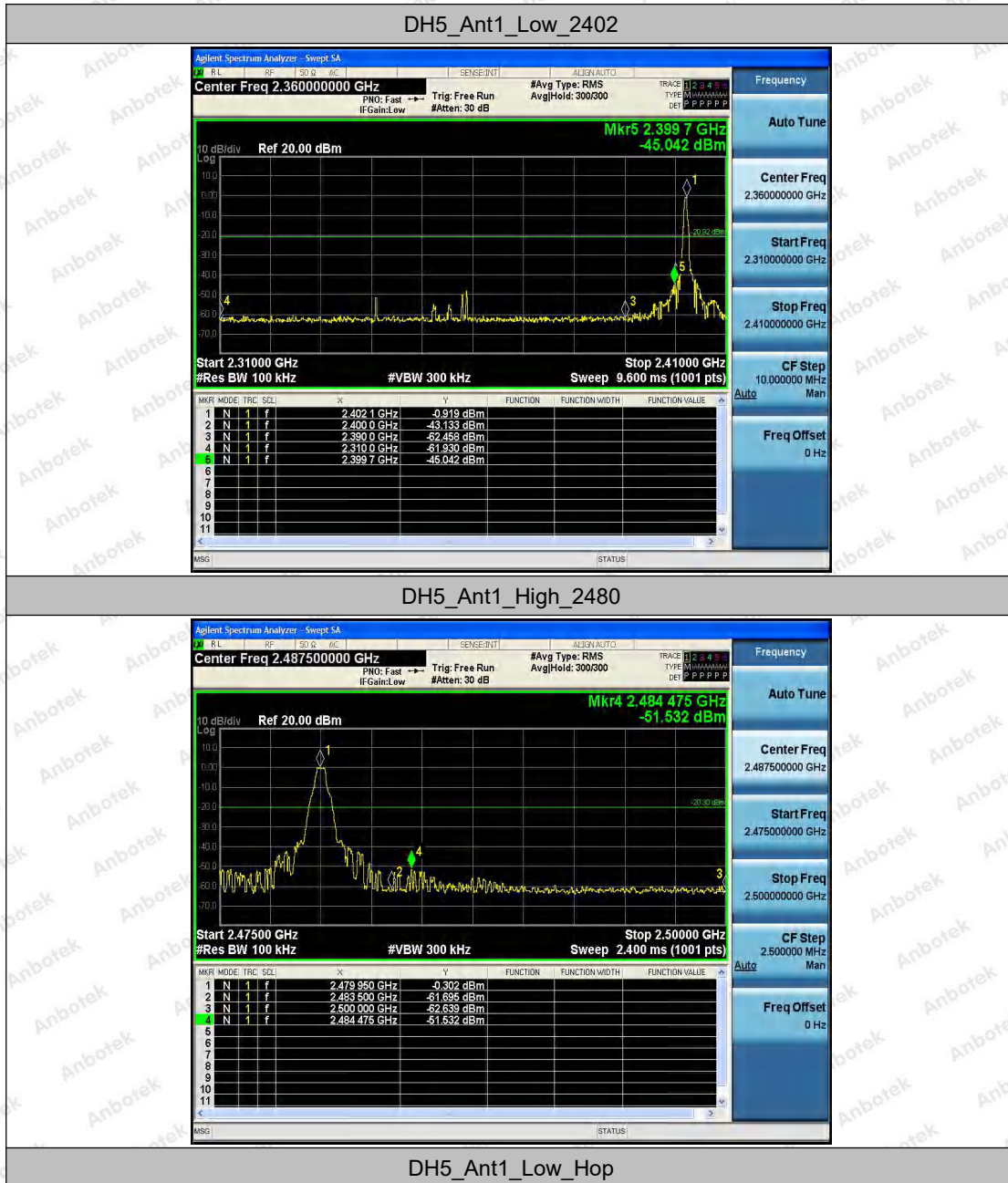
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Appendix G: Band edge measurements

Test Result

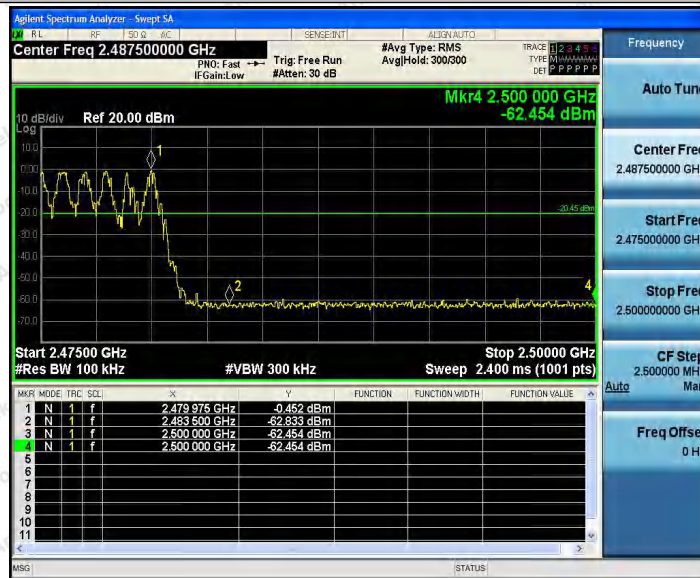
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.92	-45.04	≤-20.92	PASS
		High	2480	-0.30	-51.53	≤-20.3	PASS
		Low	Hop	-0.87	-60.24	≤-20.87	PASS
		High	Hop	-0.45	-62.45	≤-20.45	PASS
2DH5	Ant1	Low	2402	-1.60	-53.6	≤-21.6	PASS
		High	2480	-1.88	-53.5	≤-21.88	PASS
		Low	Hop	-3.73	-58.82	≤-23.73	PASS
		High	Hop	-3.73	-63.35	≤-23.73	PASS
3DH5	Ant1	Low	2402	-3.27	-53.72	≤-23.27	PASS
		High	2480	-2.61	-56.15	≤-22.61	PASS
		Low	Hop	-3.13	-59.54	≤-23.13	PASS
		High	Hop	-4.42	-62.75	≤-24.42	PASS

Test Graphs

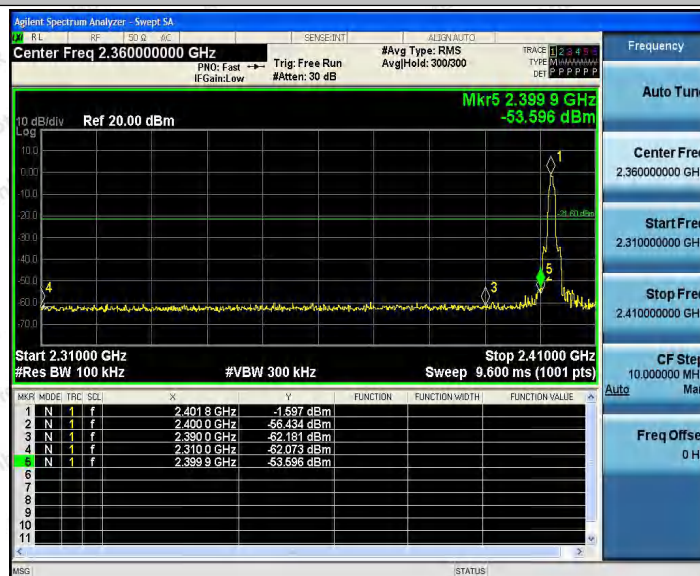




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



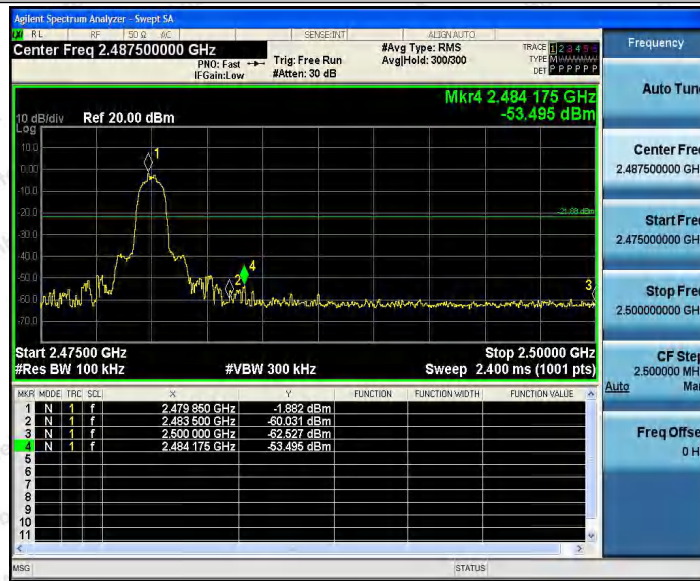
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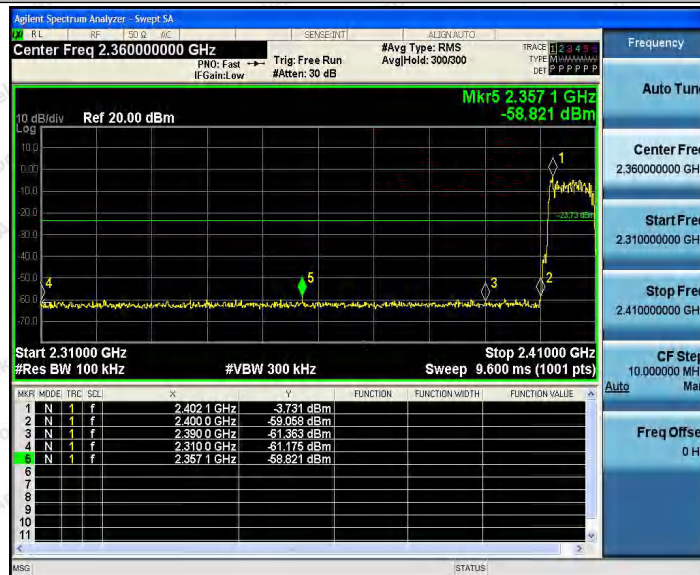
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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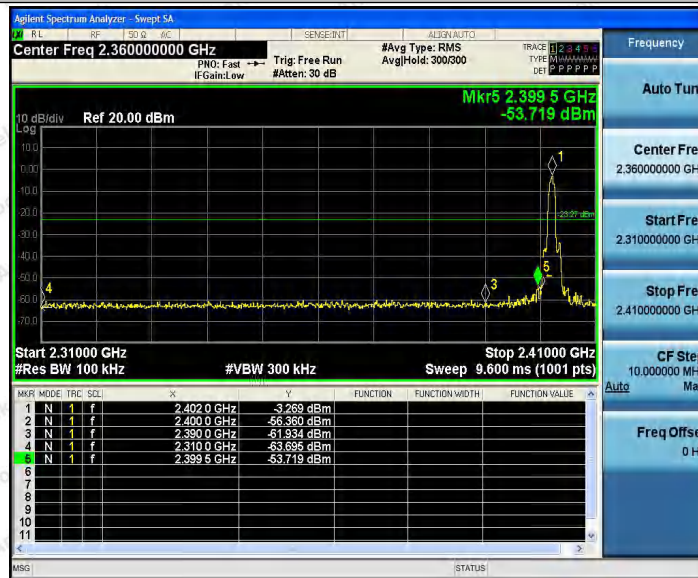
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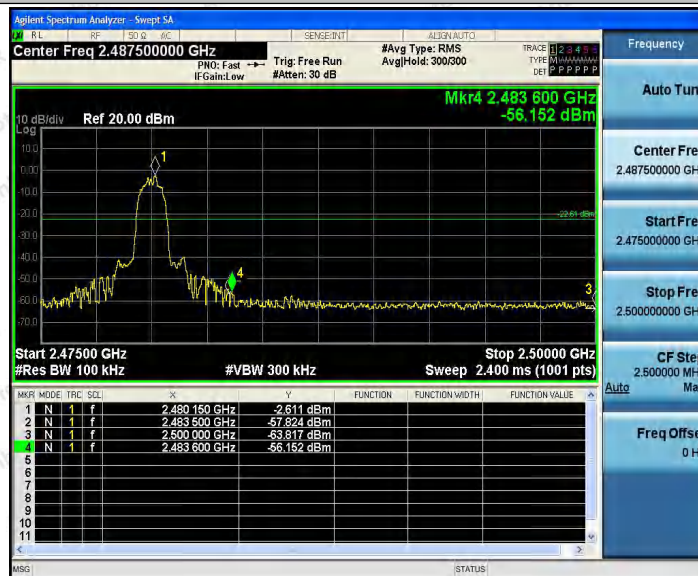
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

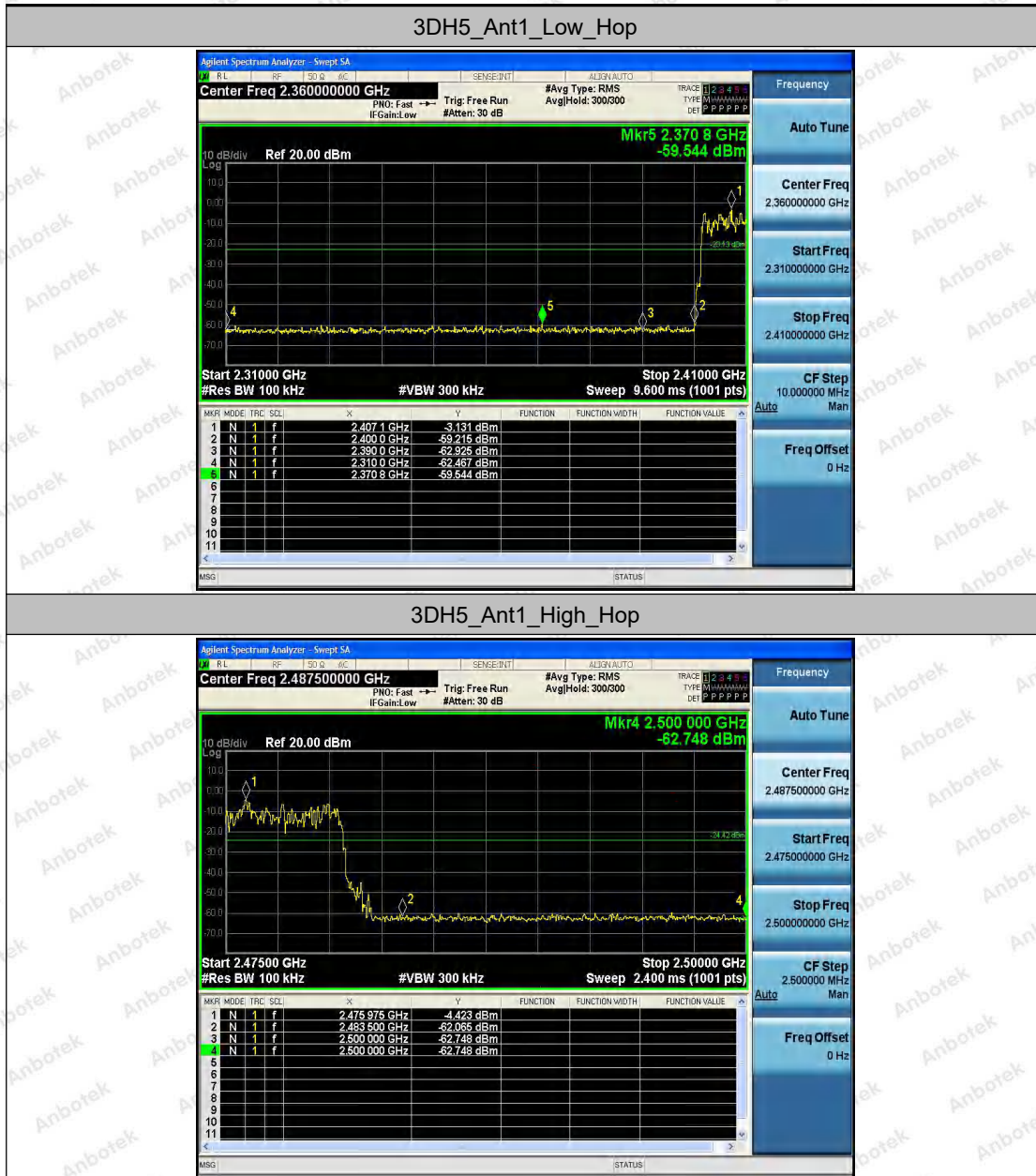


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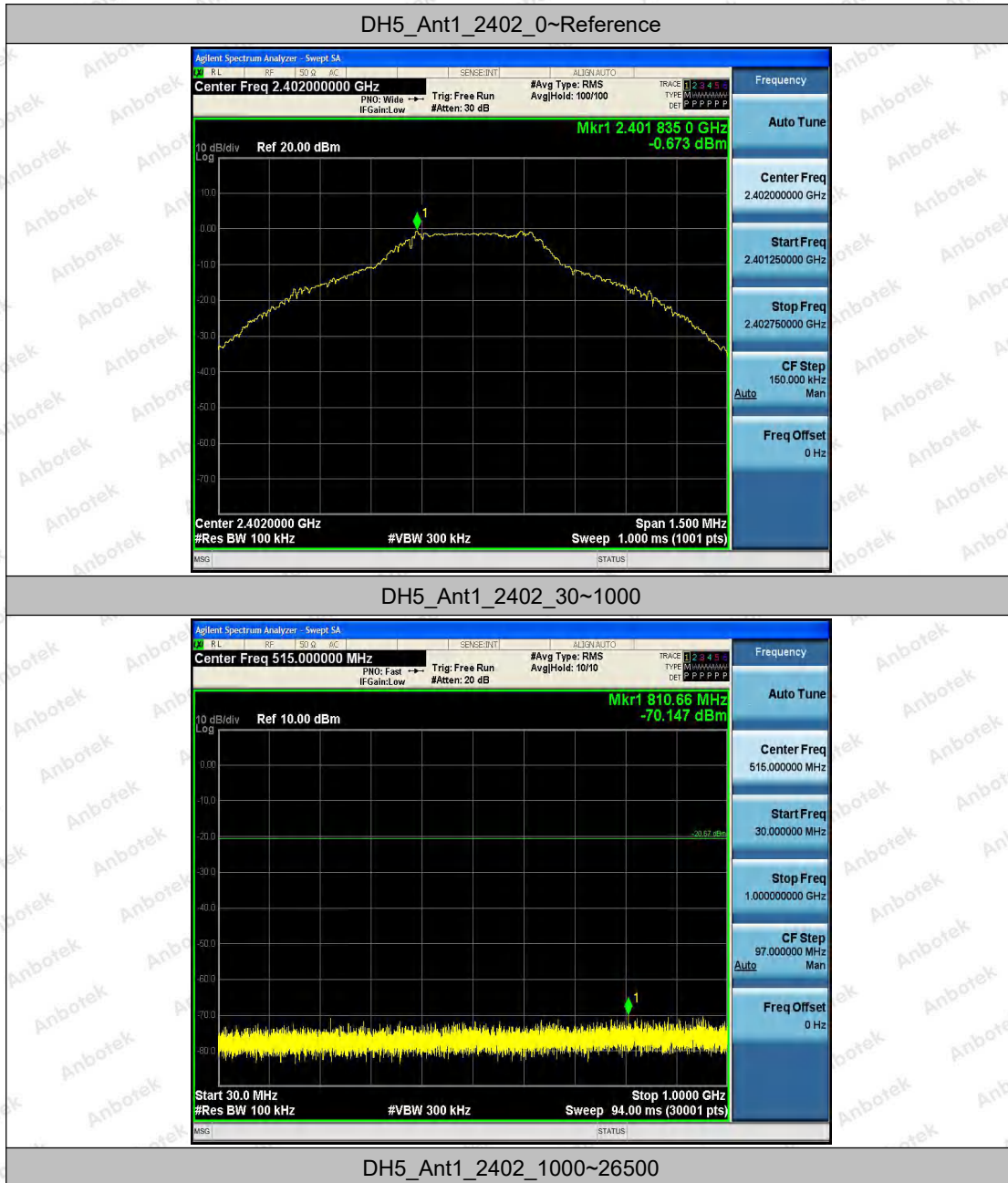
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-70.15	≤-20.67	PASS
			1000~26500	-0.67	-41.88	≤-20.67	PASS
		2441	Reference	-1.58	-1.58	---	PASS
			30~1000	-1.58	-70.55	≤-21.58	PASS
			1000~26500	-1.58	-46.33	≤-21.58	PASS
		2480	Reference	-0.56	-0.56	---	PASS
			30~1000	-0.56	-70.21	≤-20.56	PASS
			1000~26500	-0.56	-48.23	≤-20.56	PASS
2DH5	Ant1	2402	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-68.75	≤-22.24	PASS
			1000~26500	-2.24	-46.1	≤-22.24	PASS
		2441	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-69.49	≤-22.65	PASS
			1000~26500	-2.65	-50.36	≤-22.65	PASS
		2480	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-68.38	≤-21.48	PASS
			1000~26500	-1.48	-52.1	≤-21.48	PASS
3DH5	Ant1	2402	Reference	-2.50	-2.50	---	PASS
			30~1000	-2.50	-69.43	≤-22.5	PASS
			1000~26500	-2.50	-45.77	≤-22.5	PASS
		2441	Reference	-3.59	-3.59	---	PASS
			30~1000	-3.59	-70.93	≤-23.59	PASS
			1000~26500	-3.59	-48.25	≤-23.59	PASS
		2480	Reference	-3.40	-3.40	---	PASS
			30~1000	-3.40	-70.44	≤-23.4	PASS
			1000~26500	-3.40	-48.34	≤-23.4	PASS

Test Graphs

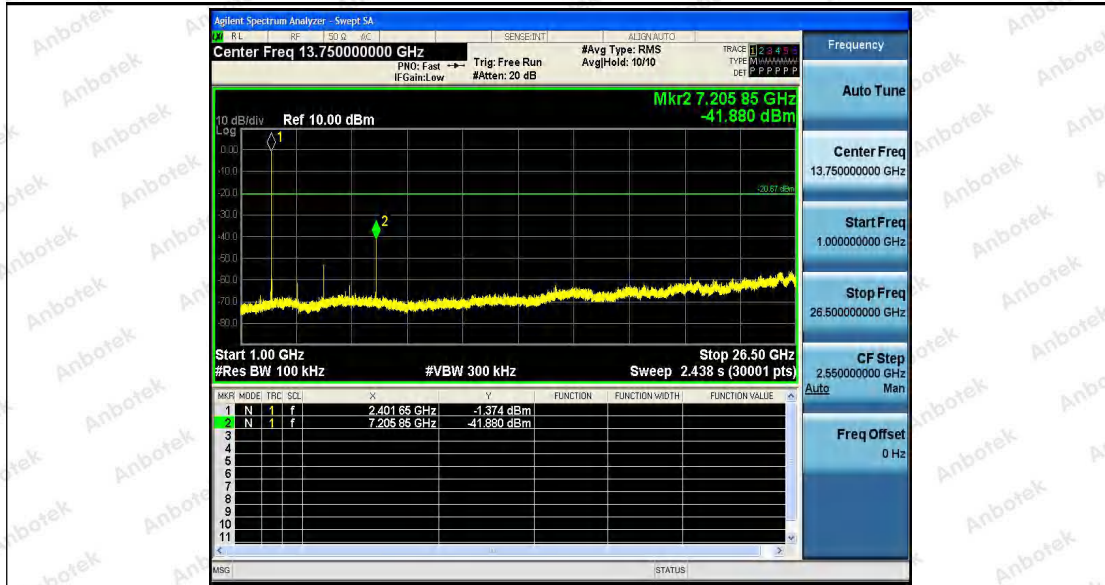


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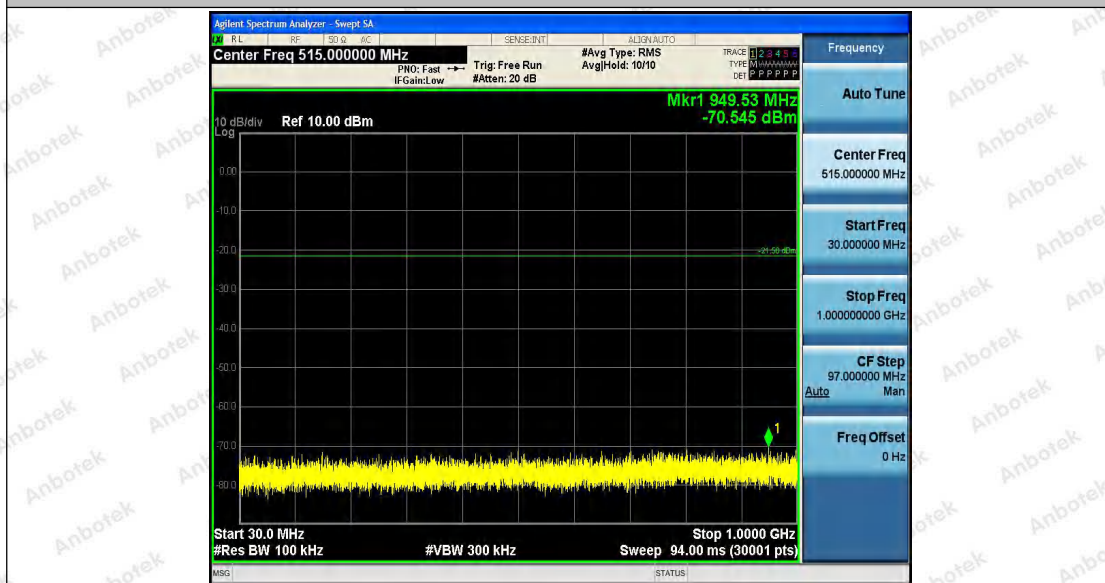
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

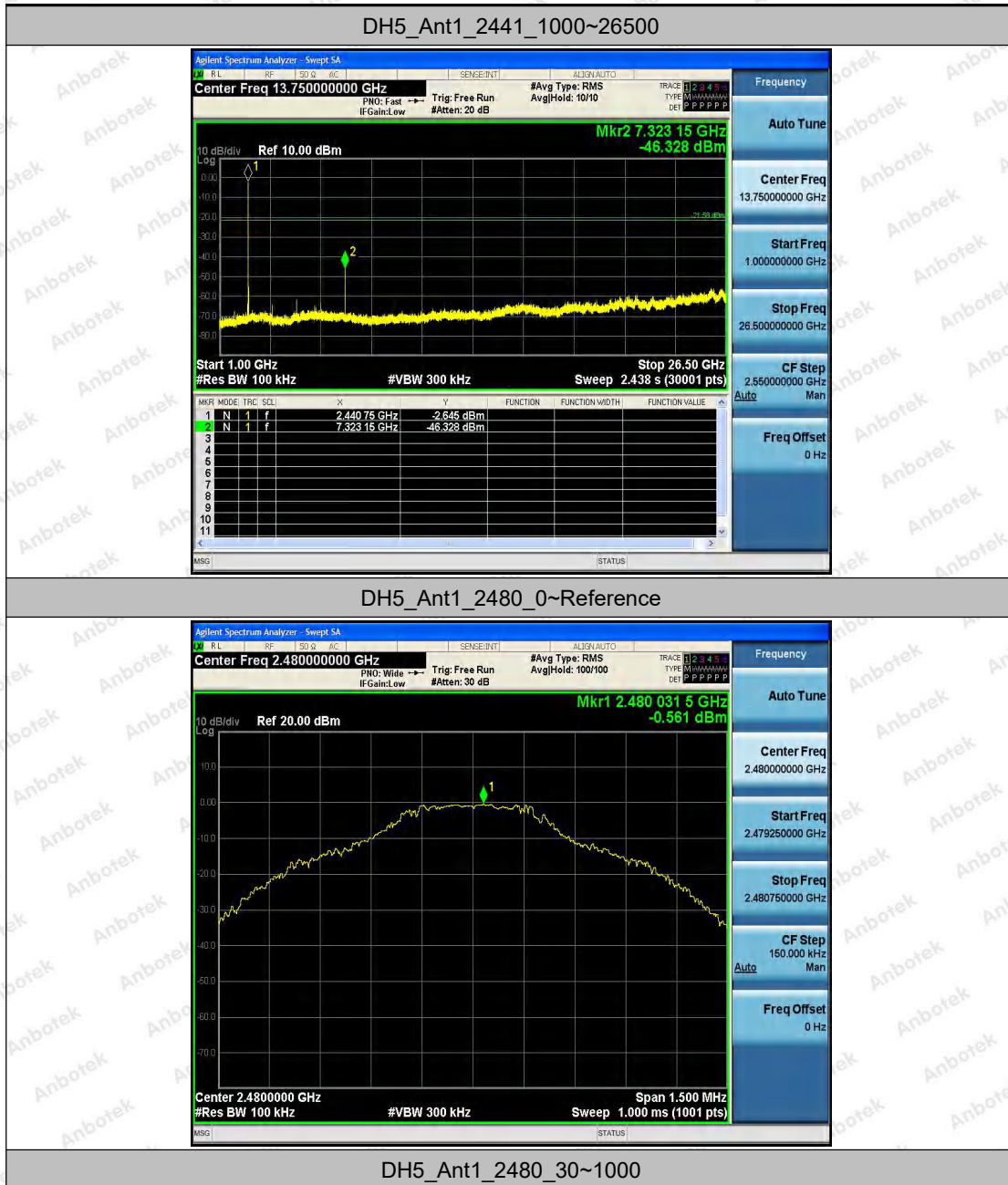


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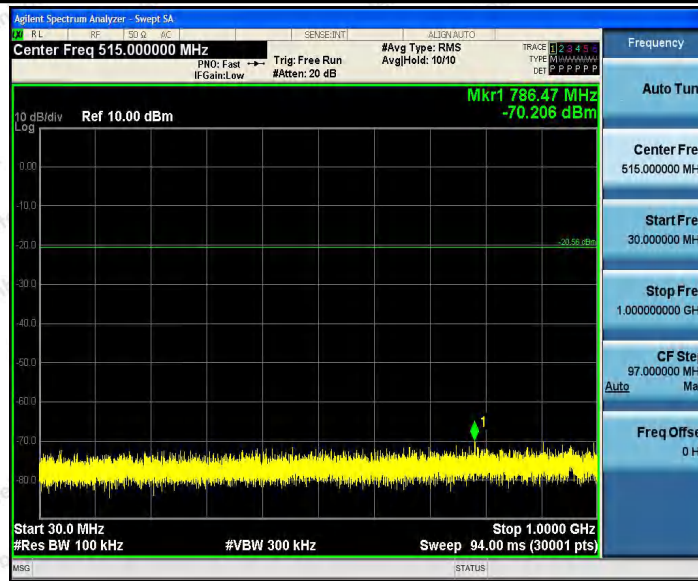


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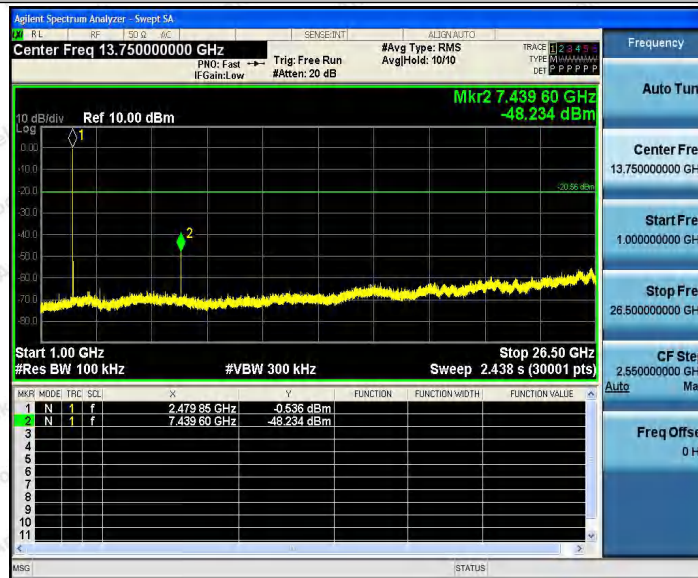
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

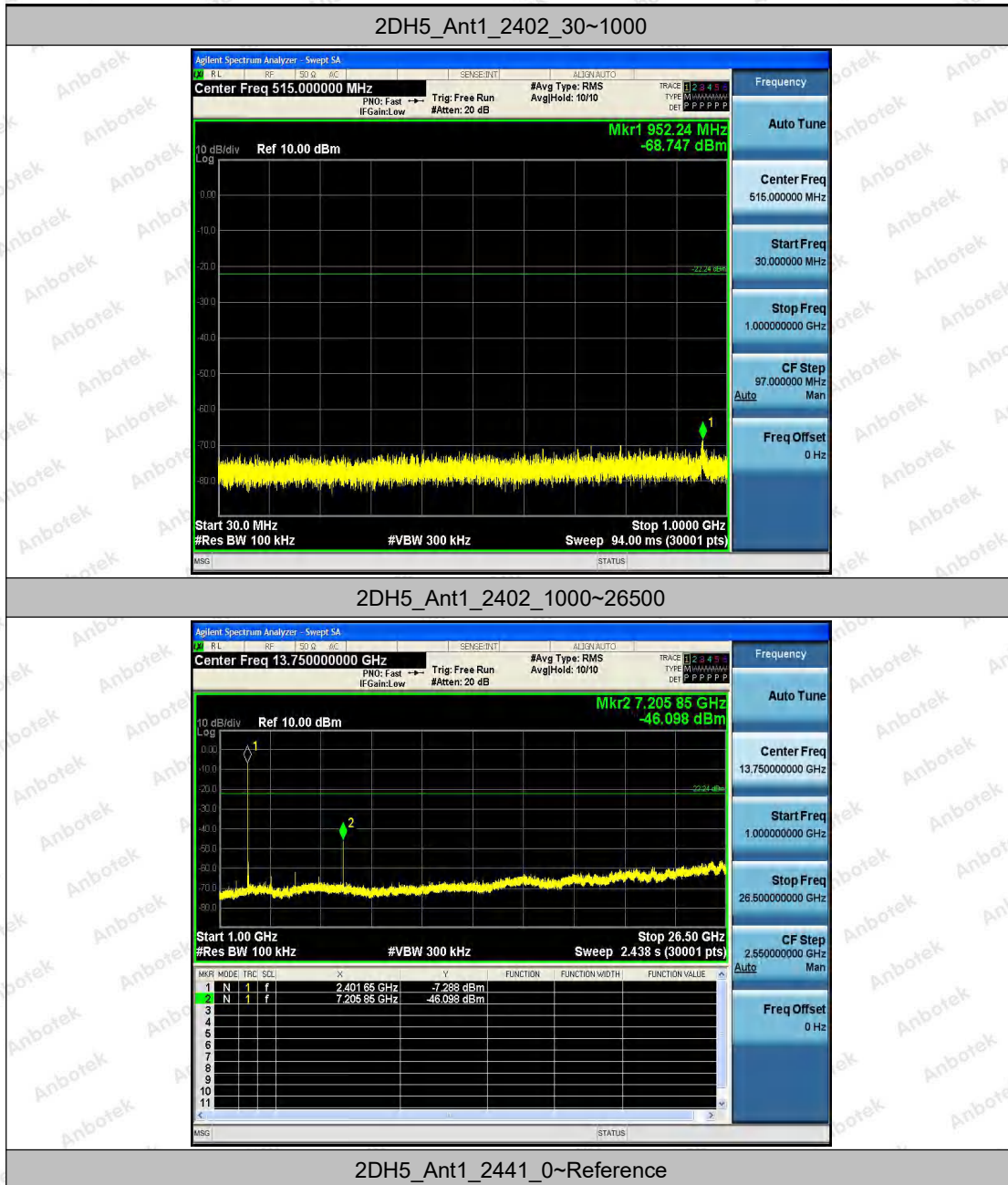


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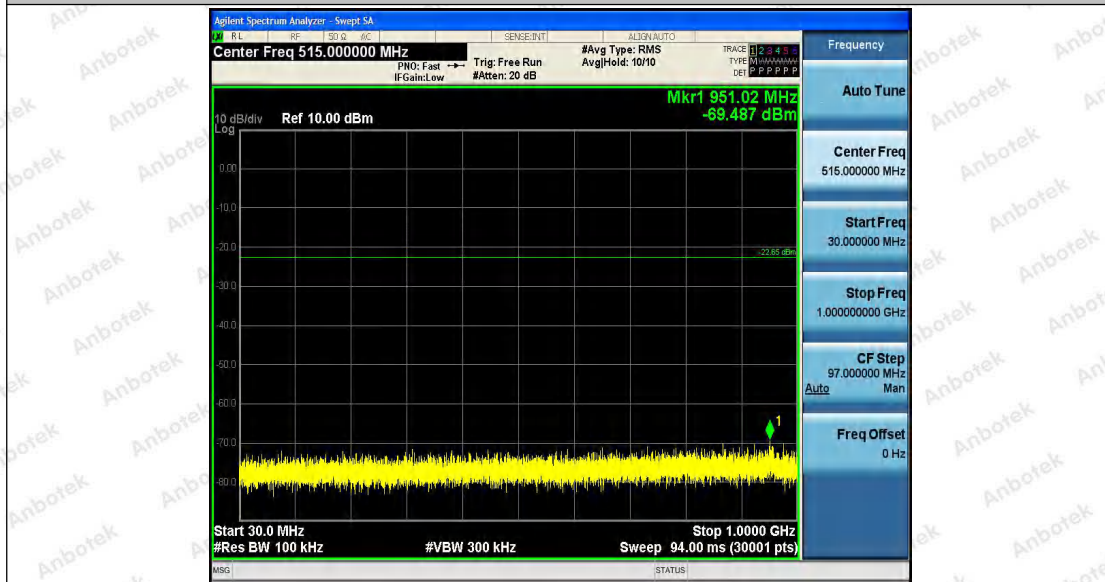
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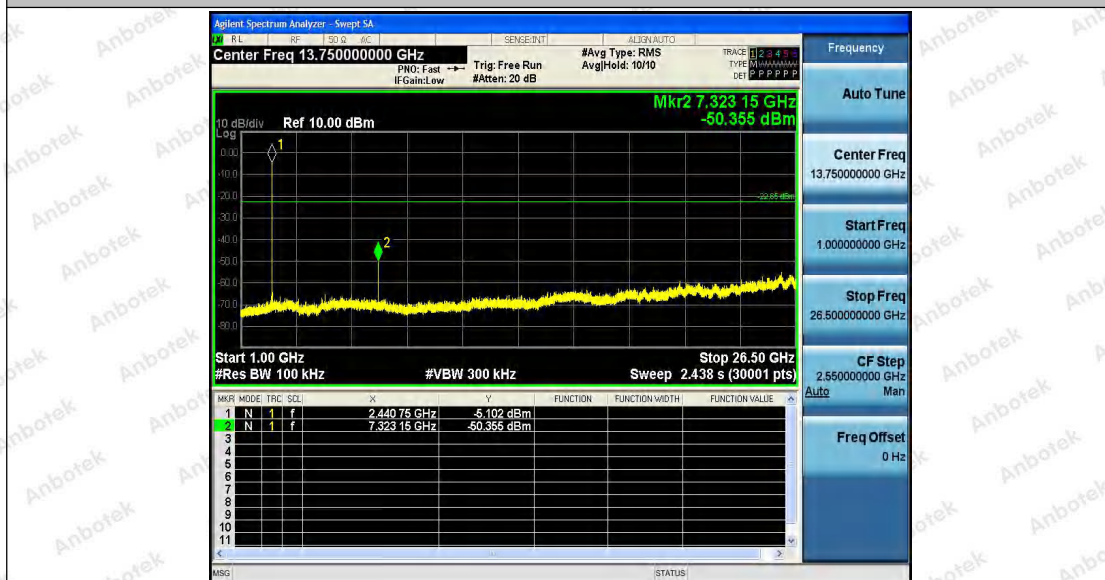
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

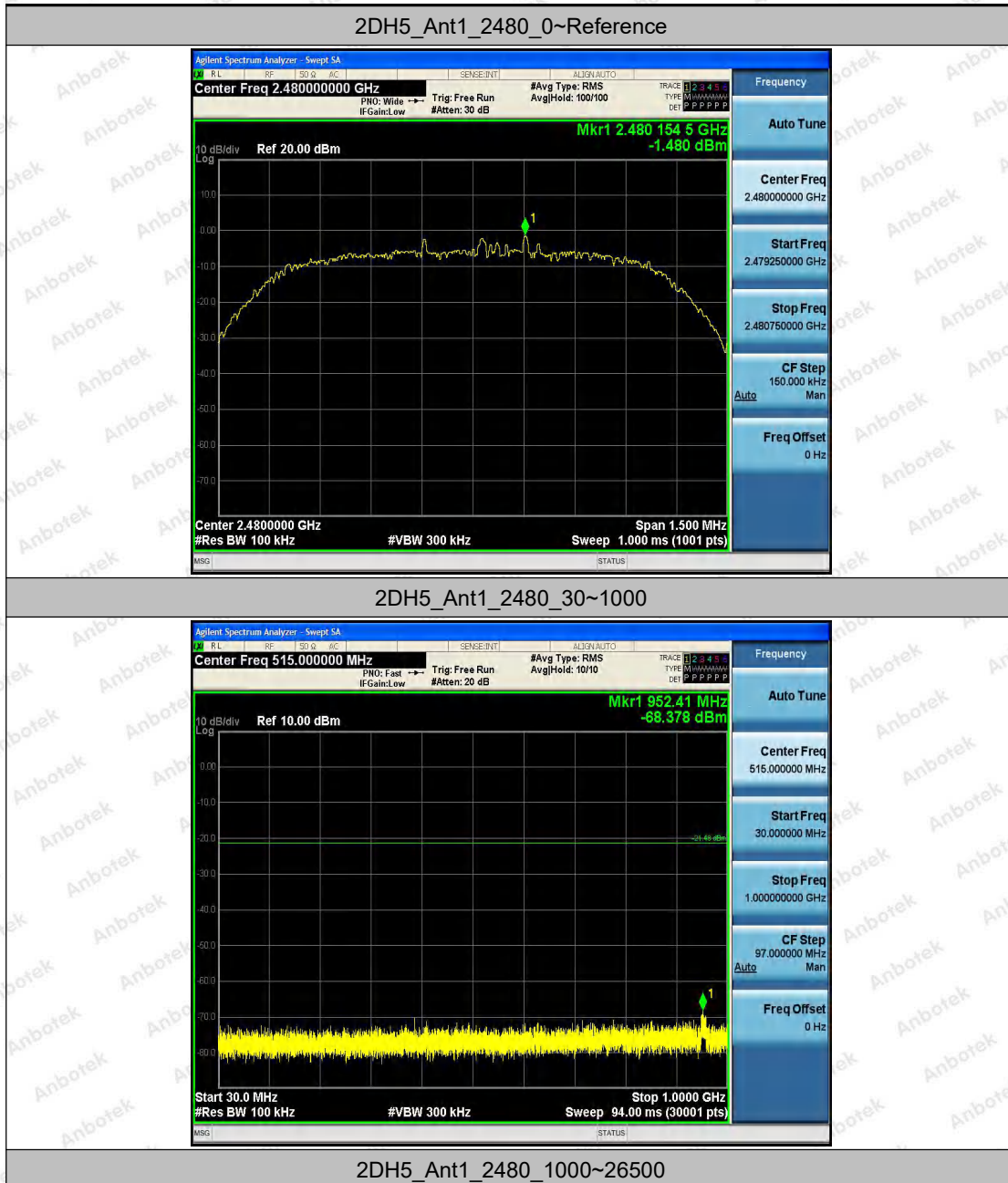


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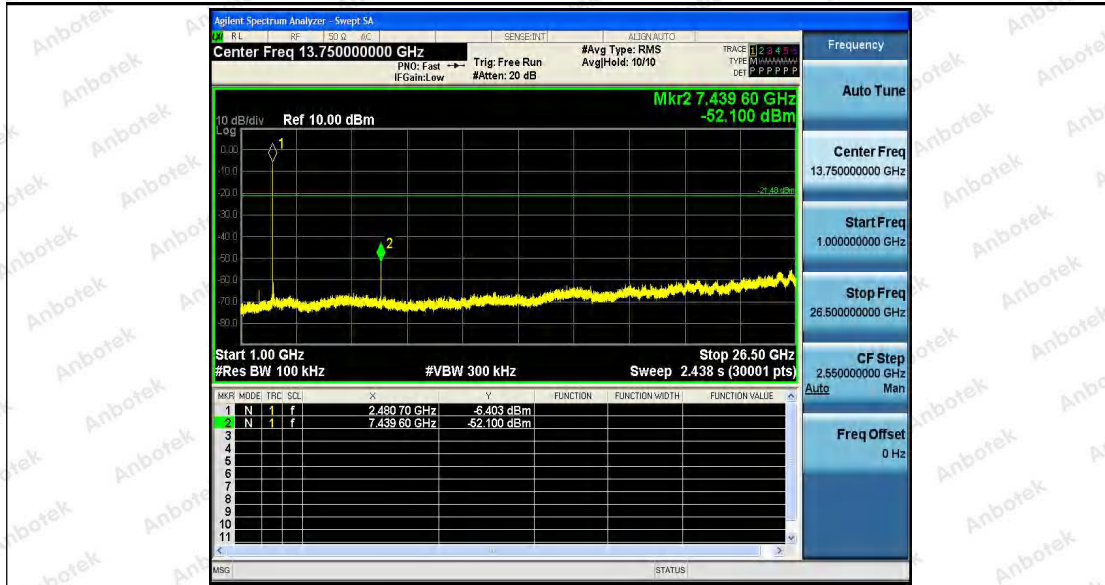


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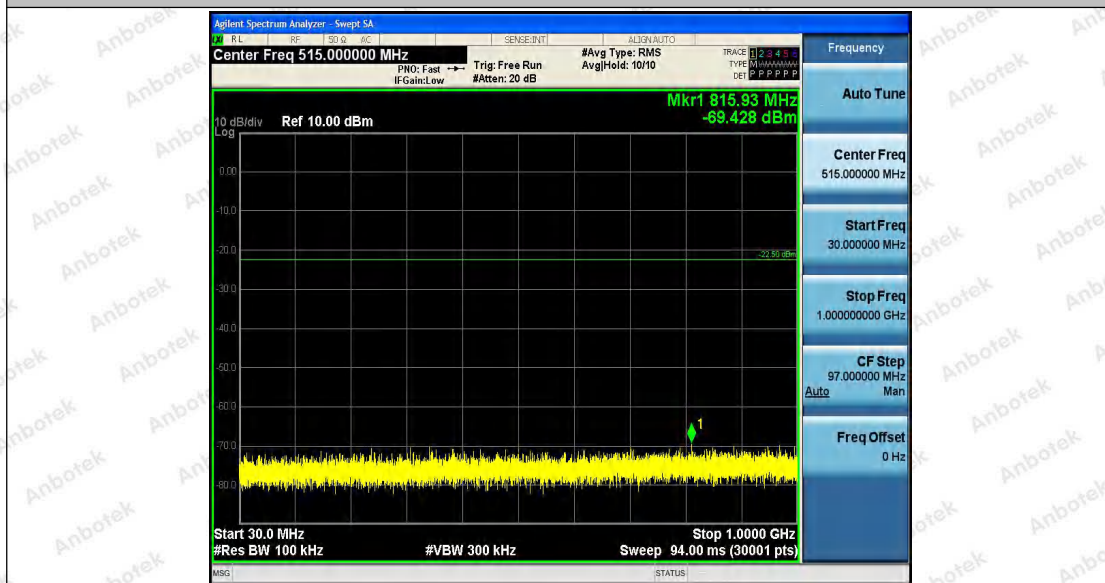
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

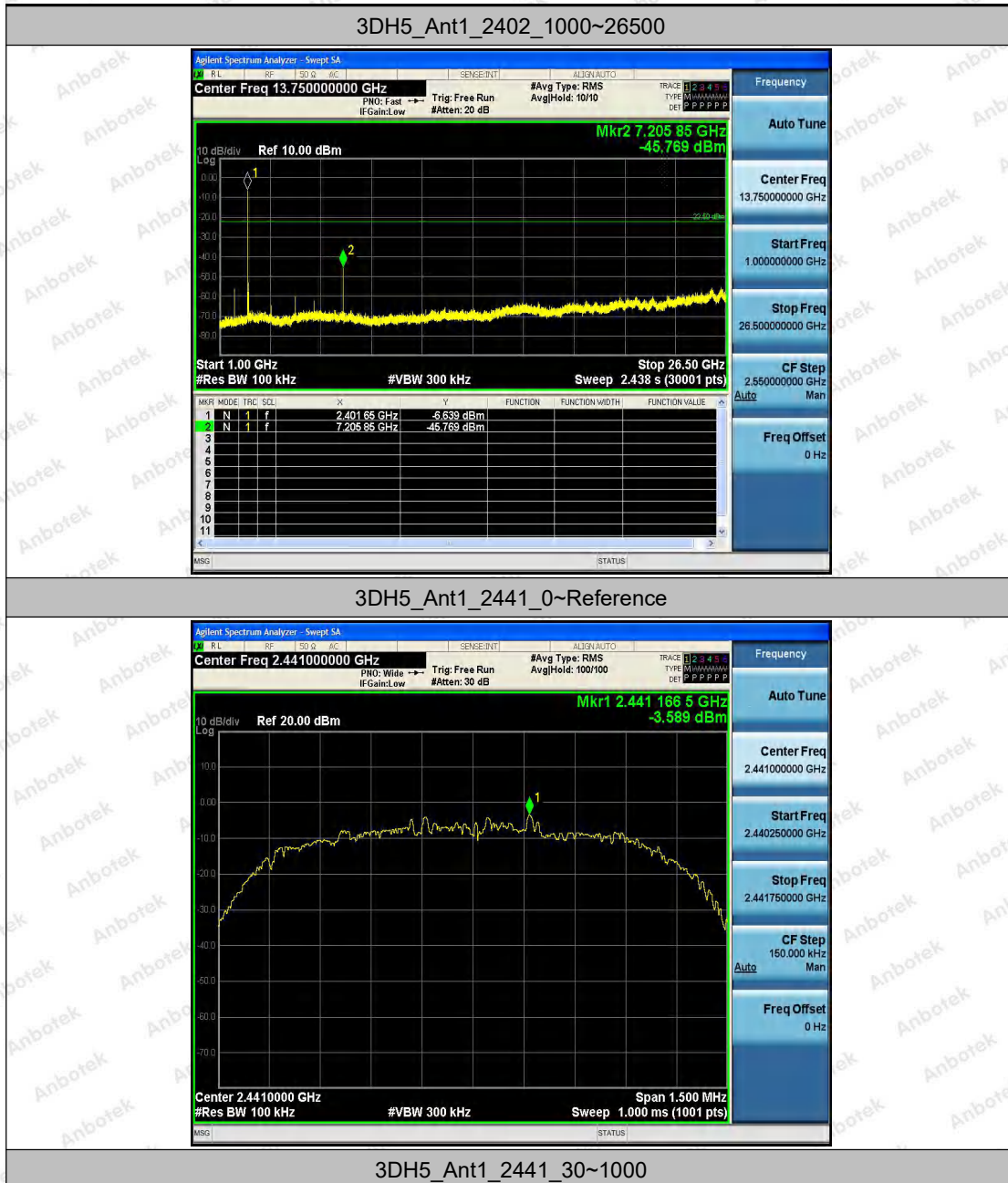


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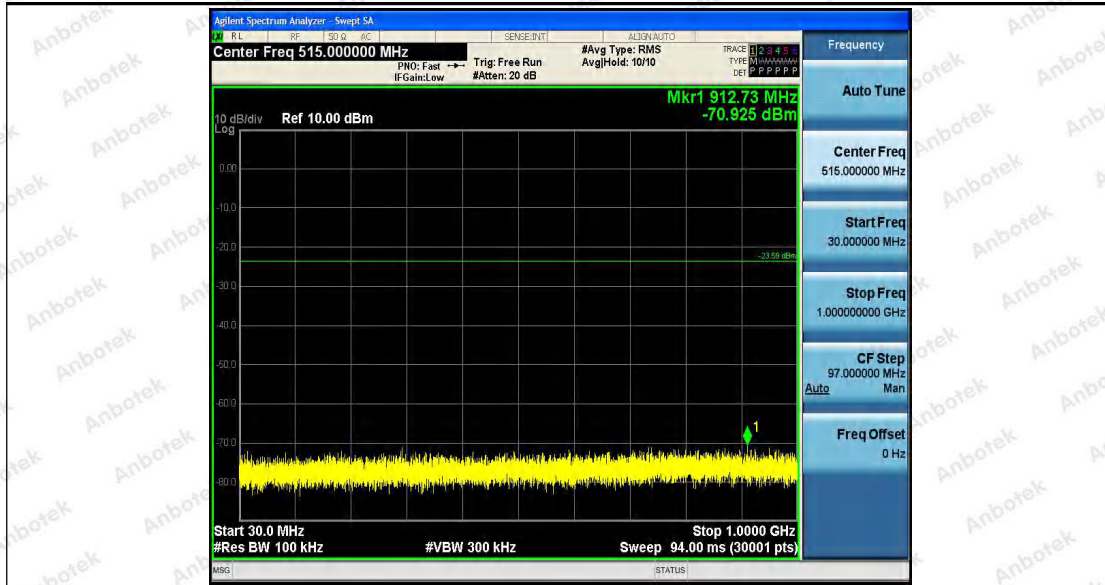


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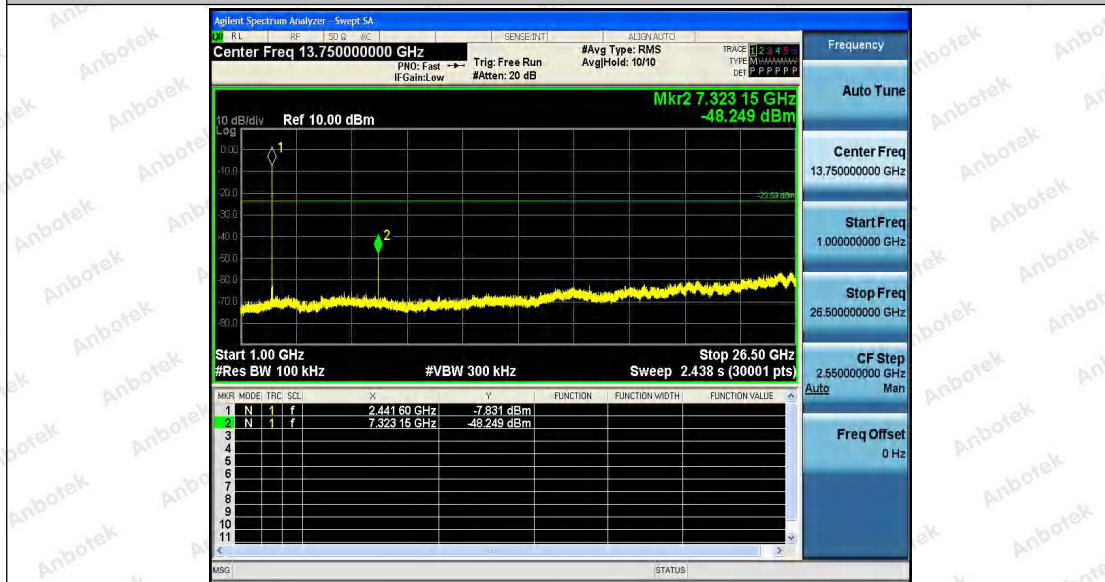
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

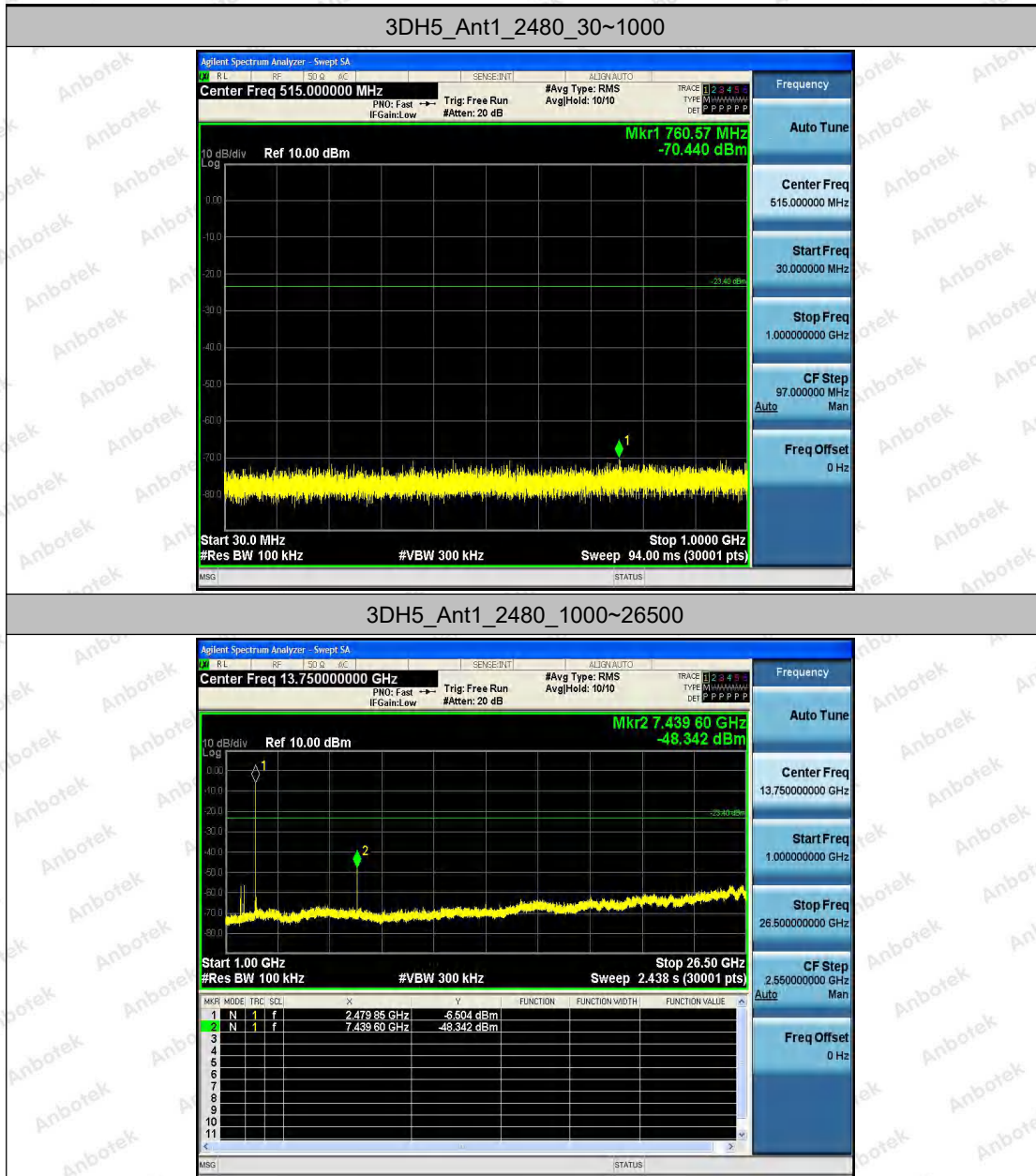


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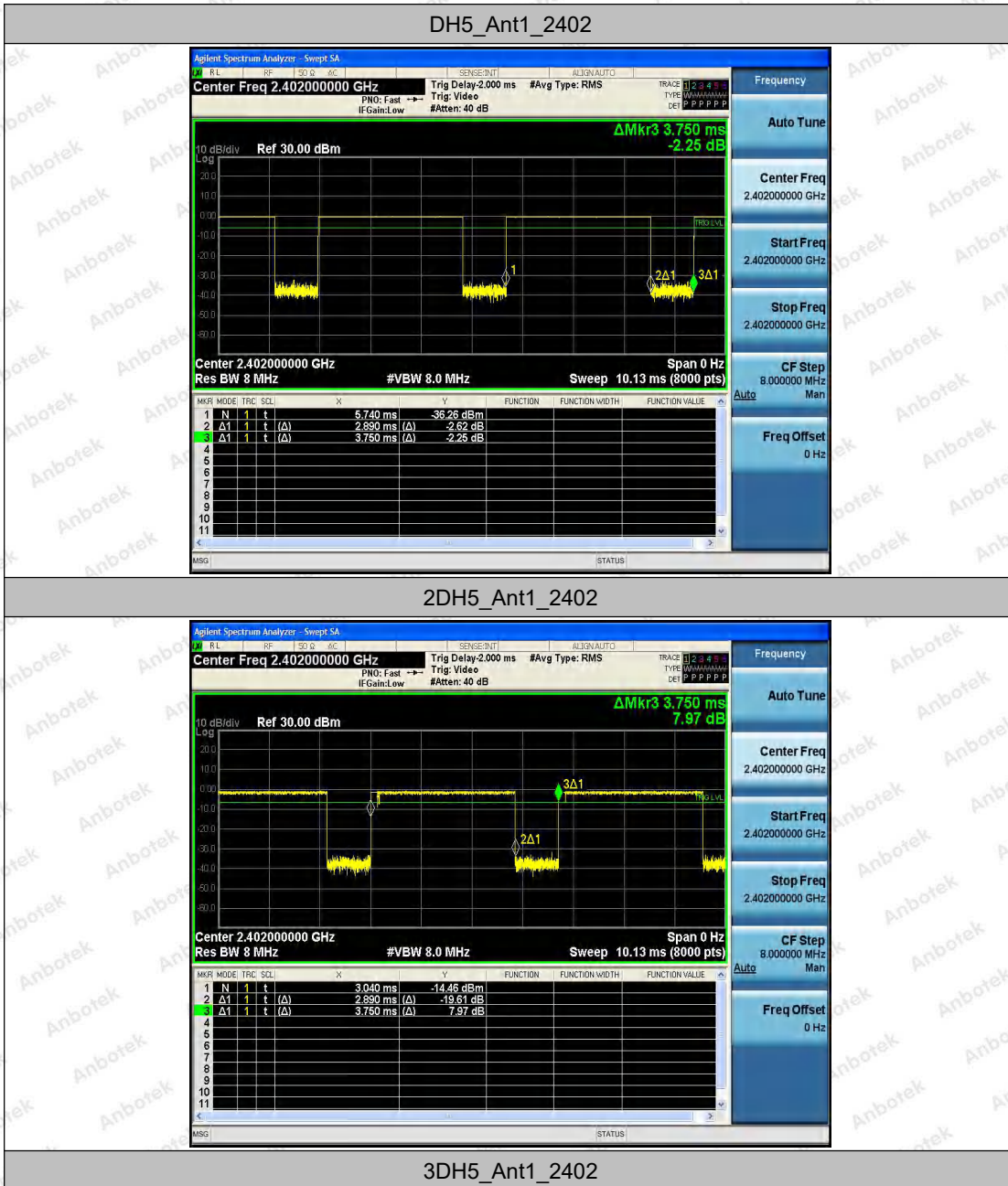
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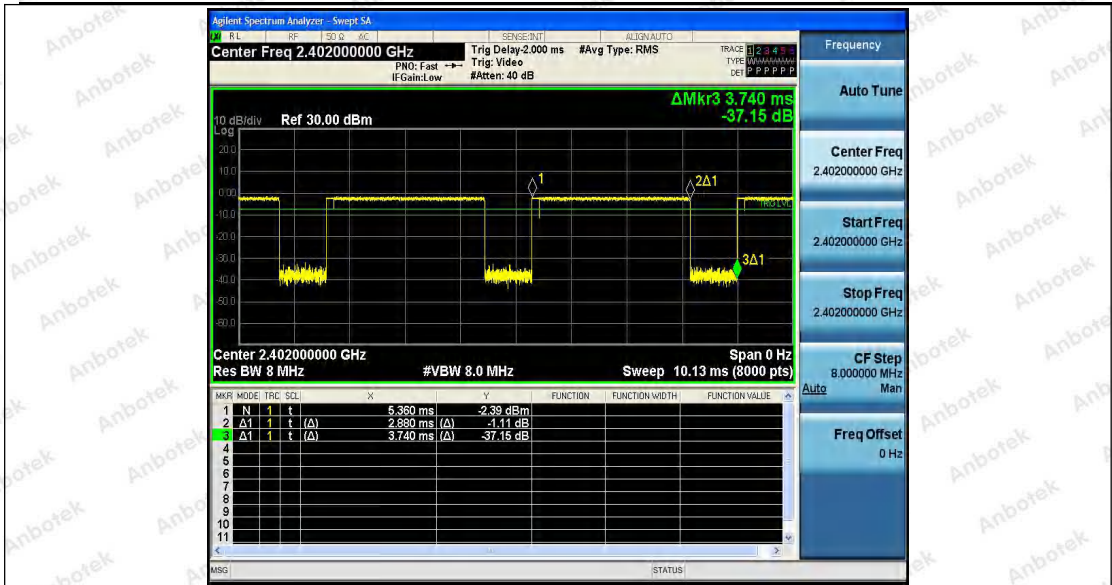
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.74	0.7701	77.01	1.13	---	PASS

Test Graphs





---End---