

Appendix Test Data

Report No.:	18220WC10251601	Test Sample No.:	1-2-2
Start Test Date:	2021.11.16	Finish Test Date:	2021.11.18
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3C°	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	0.951	2401.532	2402.483	---	PASS
		2441	0.942	2440.532	2441.474	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.269	2401.358	2402.627	---	PASS
		2441	1.314	2440.334	2441.648	---	PASS
		2480	1.320	2479.331	2480.651	---	PASS
3DH5	Ant1	2402	1.326	2401.328	2402.654	---	PASS
		2441	1.269	2440.349	2441.618	---	PASS
		2480	1.269	2479.349	2480.618	---	PASS

Test Graphs

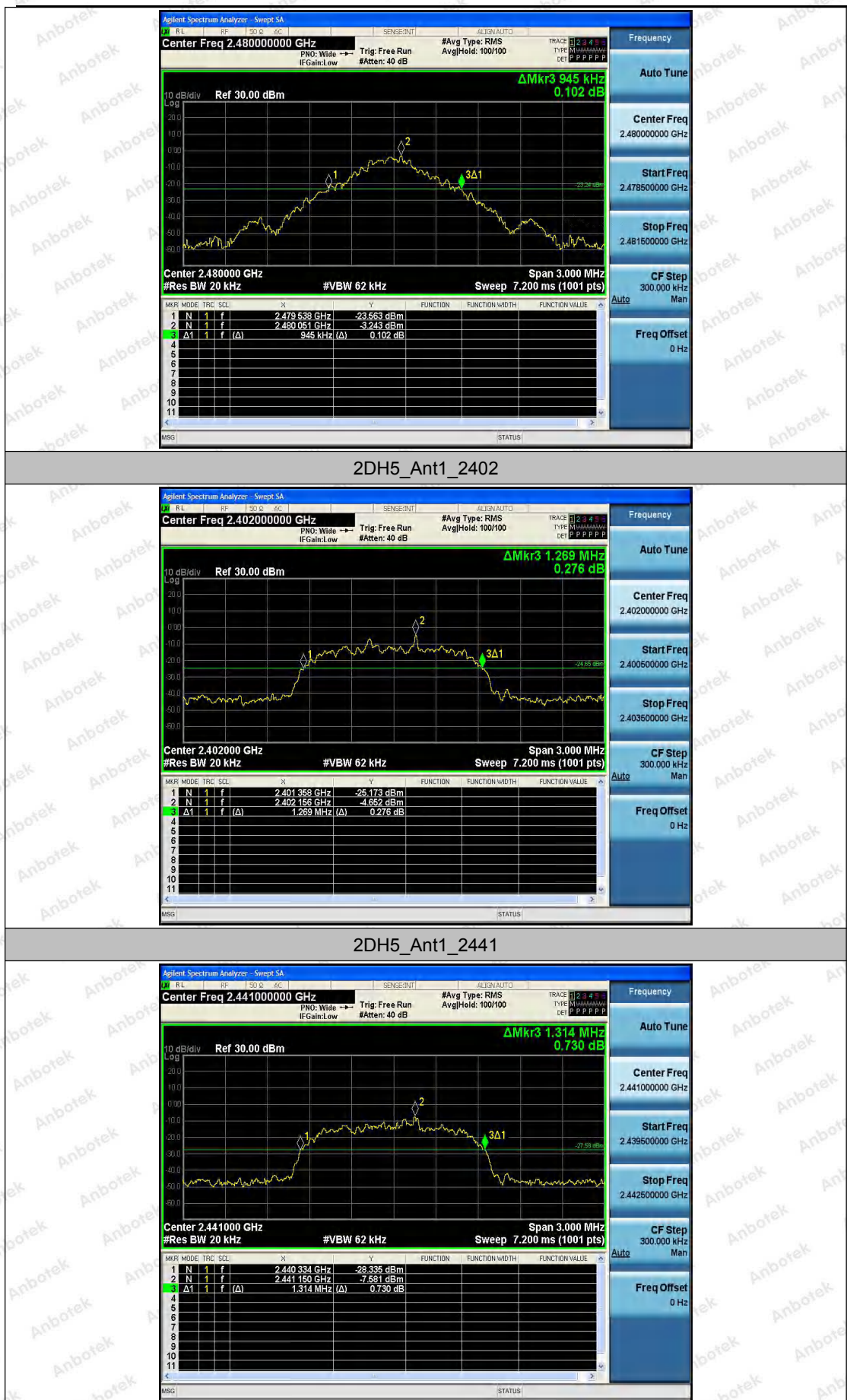


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2DH5_Ant1_2480



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	0.89184	2401.551	2402.442	---	PASS
		2441	0.89057	2440.553	2441.444	---	PASS
		2480	0.89576	2479.550	2480.445	---	PASS
2DH5	Ant1	2402	1.1951	2401.397	2402.592	---	PASS
		2441	1.1958	2440.396	2441.592	---	PASS
		2480	1.1909	2479.399	2480.590	---	PASS
3DH5	Ant1	2402	1.2156	2401.378	2402.593	---	PASS
		2441	1.2046	2440.384	2441.589	---	PASS
		2480	1.2010	2479.388	2480.589	---	PASS

Test Graphs



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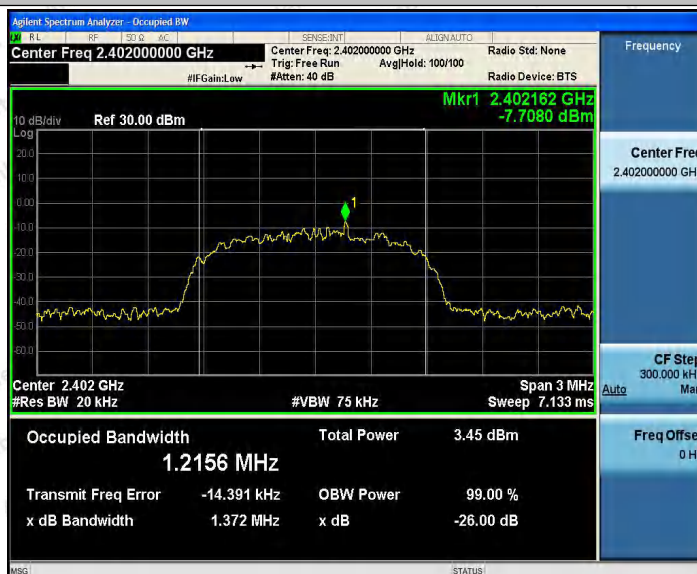
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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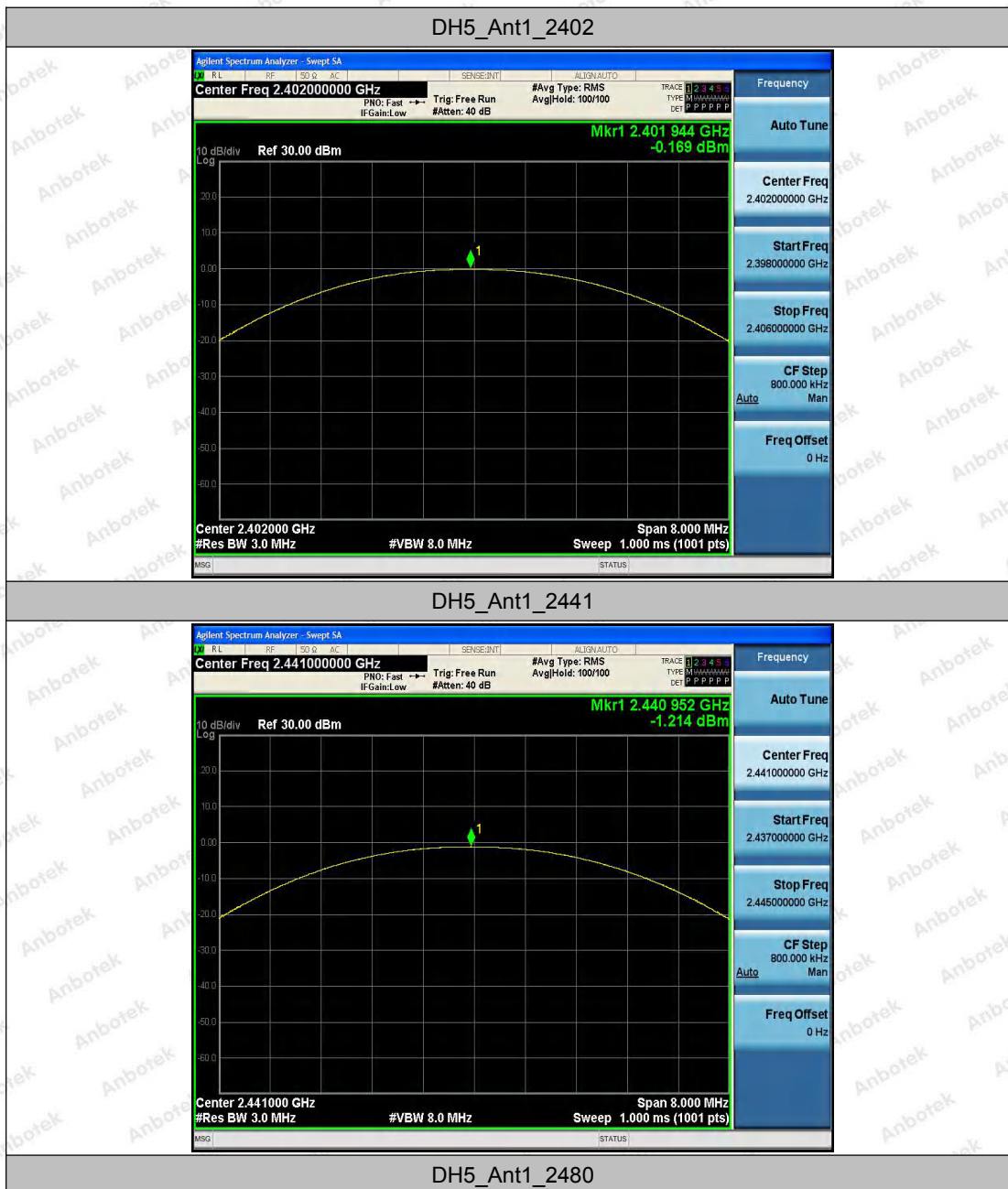
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.17	≤20.97	PASS
		2441	-1.21	≤20.97	PASS
		2480	0.5	≤20.97	PASS
2DH5	Ant1	2402	-0.64	≤20.97	PASS
		2441	-1.79	≤20.97	PASS
		2480	-0.5	≤20.97	PASS
3DH5	Ant1	2402	-1.44	≤20.97	PASS
		2441	-2.53	≤20.97	PASS
		2480	-1.34	≤20.97	PASS

Test Graphs

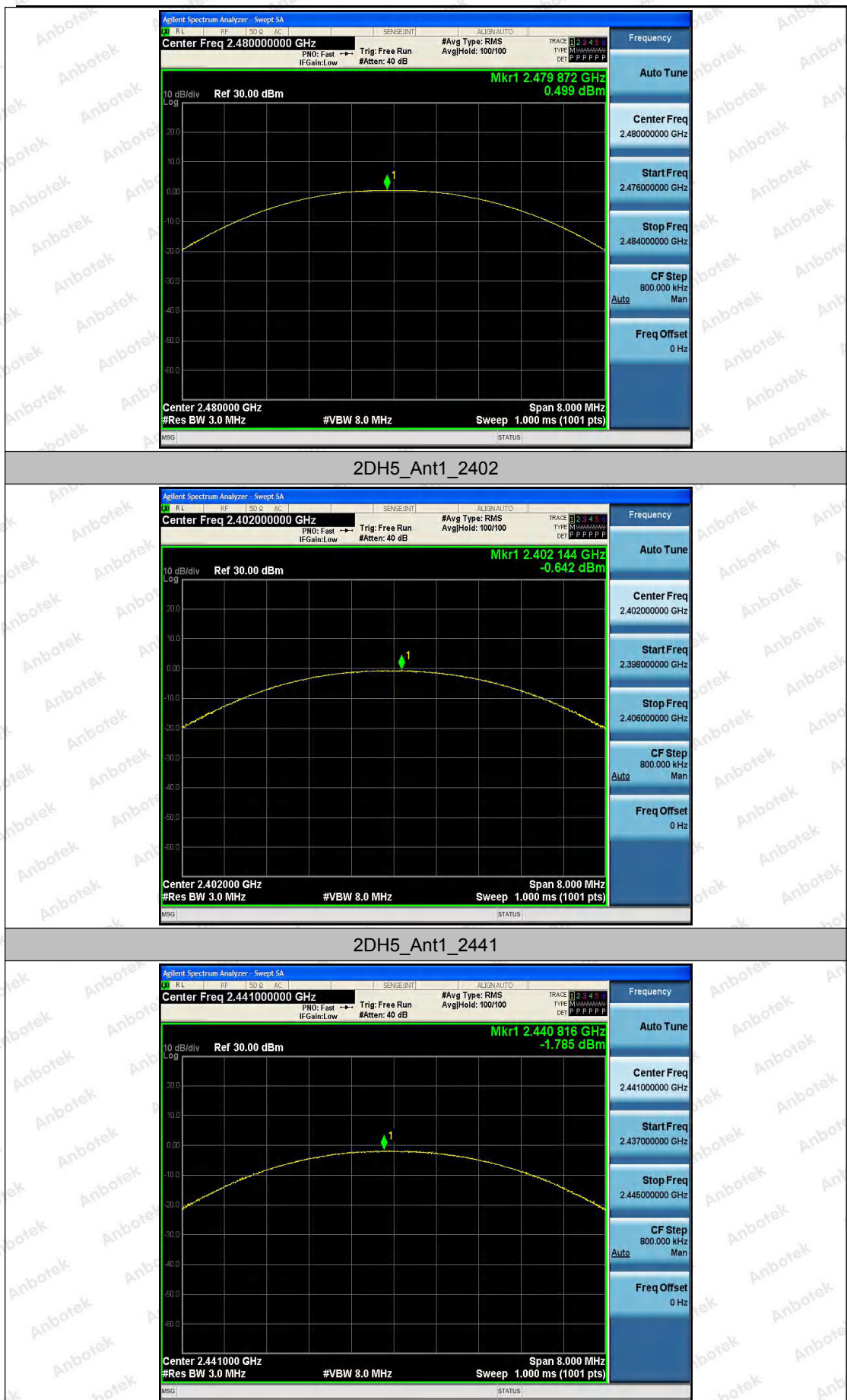


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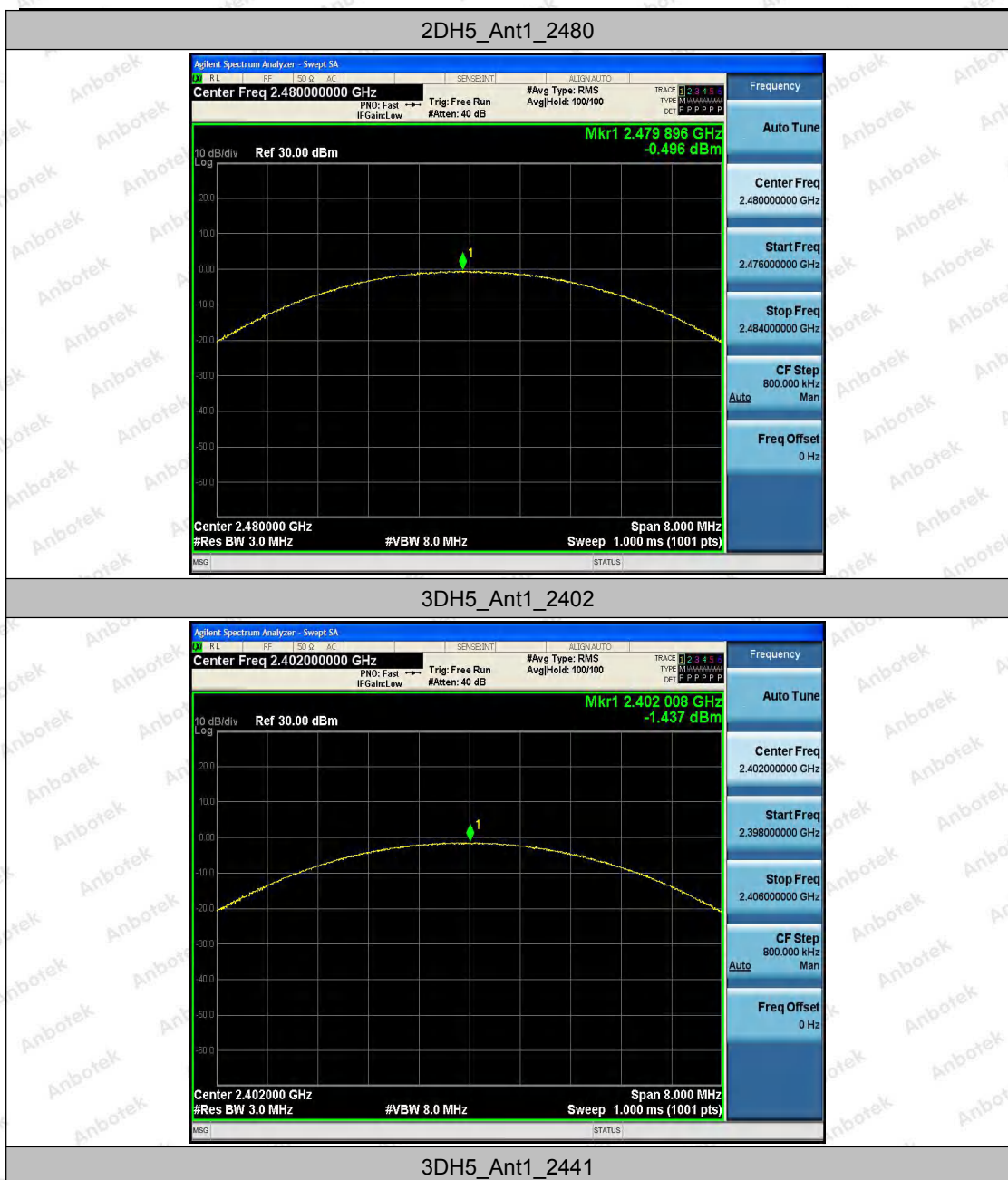
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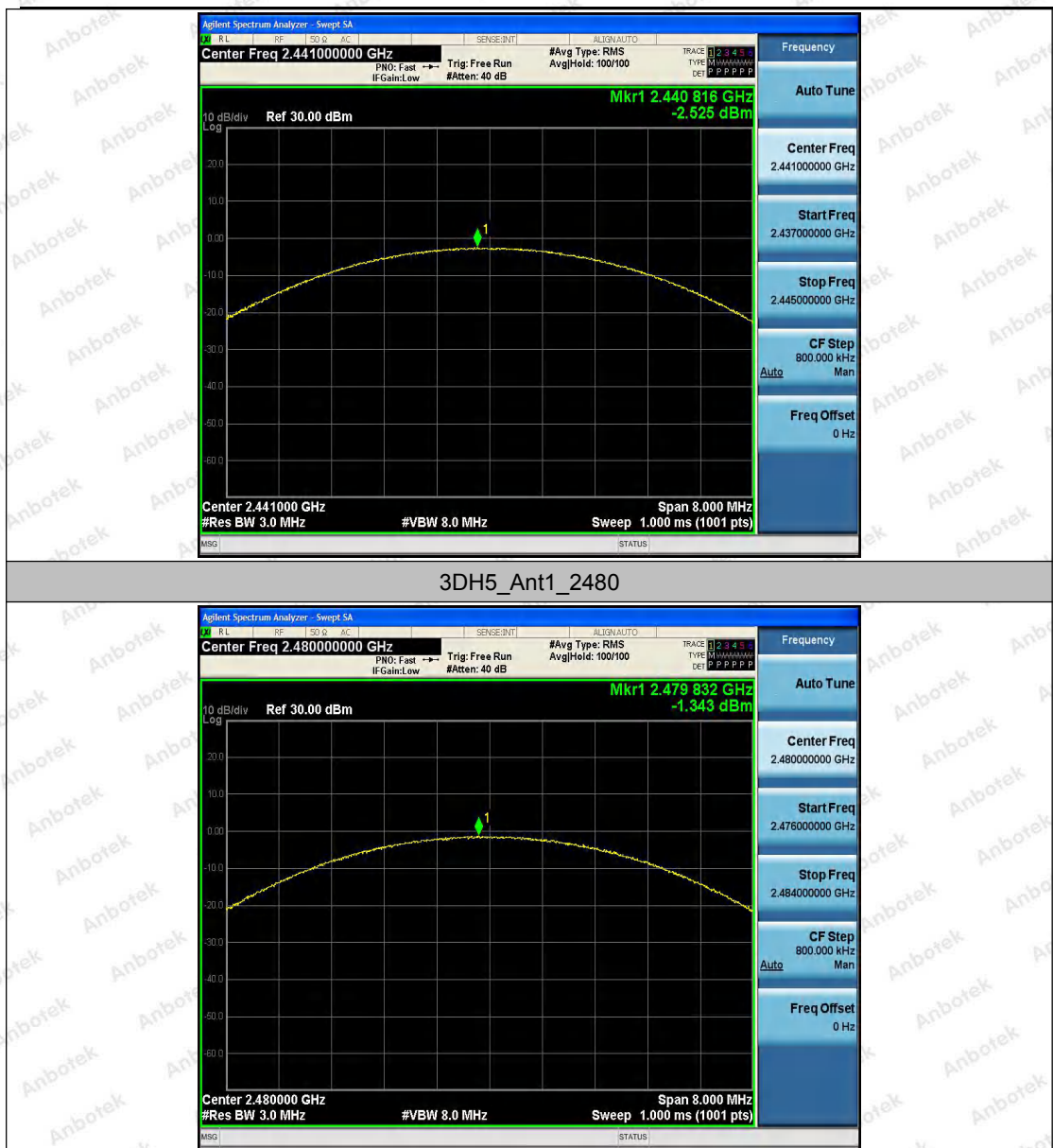


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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.99	≥ 0.951	PASS
2DH5	Ant1	Hop	1.078	≥ 0.880	PASS
3DH5	Ant1	Hop	1.008	≥ 0.884	PASS

Test Graphs



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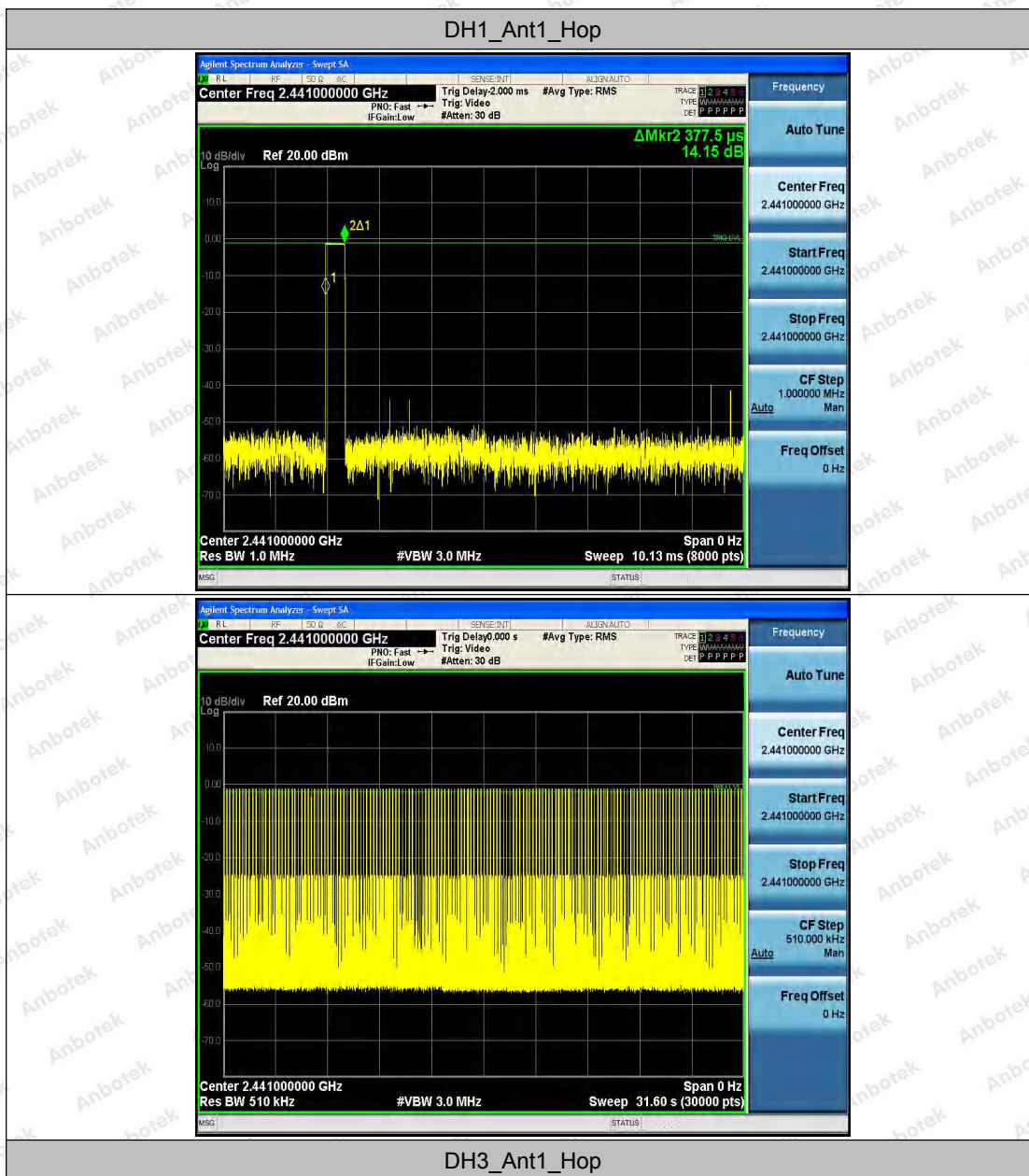
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	105	0.302	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.309	≤0.4	PASS
3DH1	Ant1	Hop	0.38	315	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	158	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.89	108	0.312	≤0.4	PASS

Test Graphs

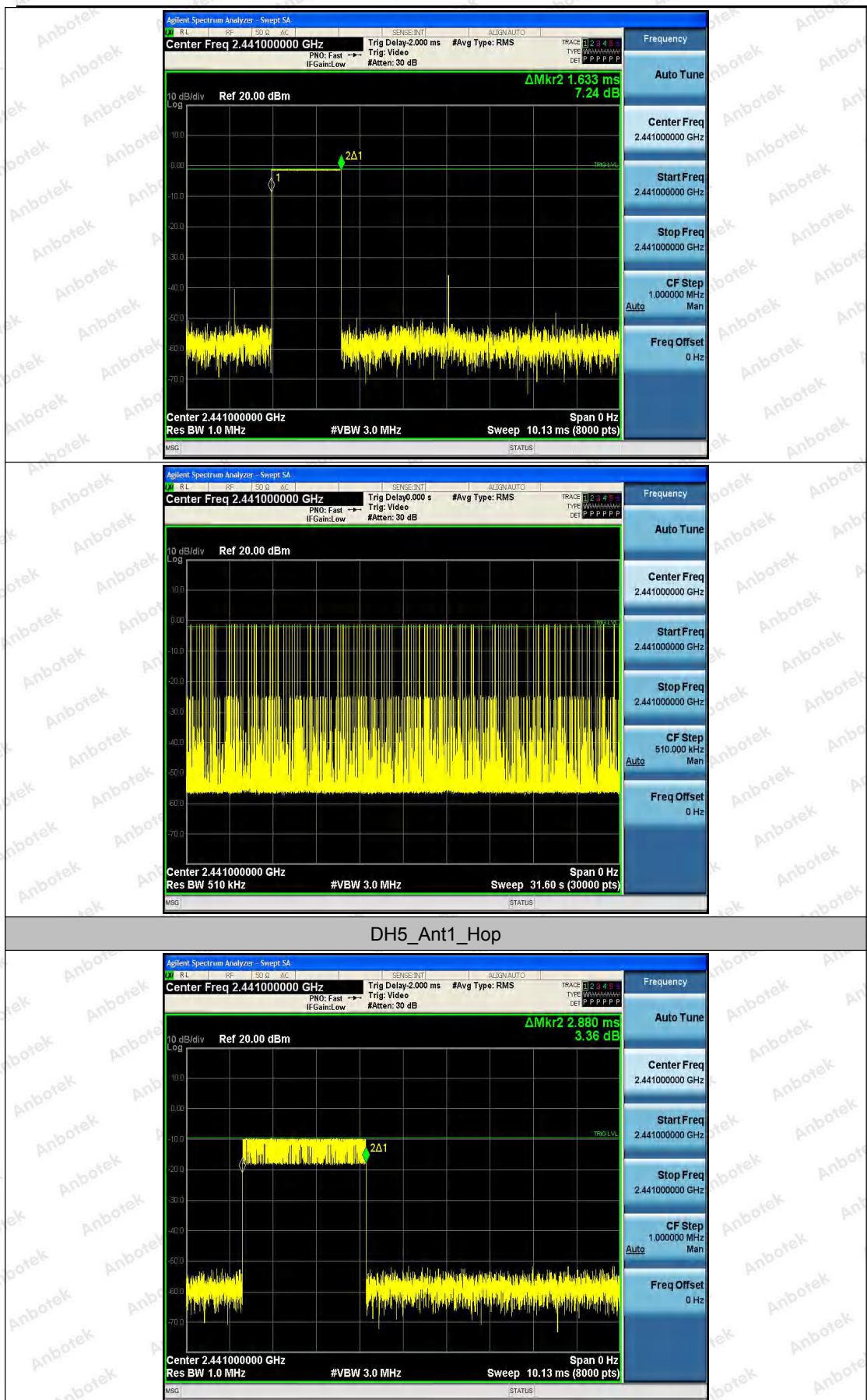


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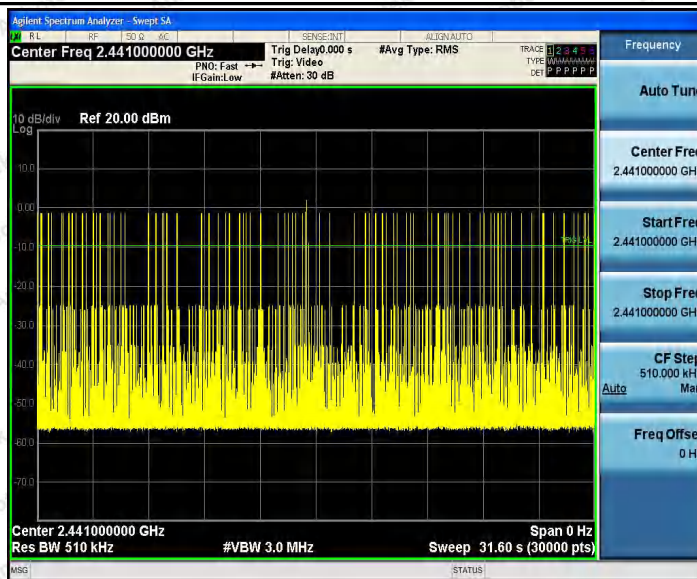


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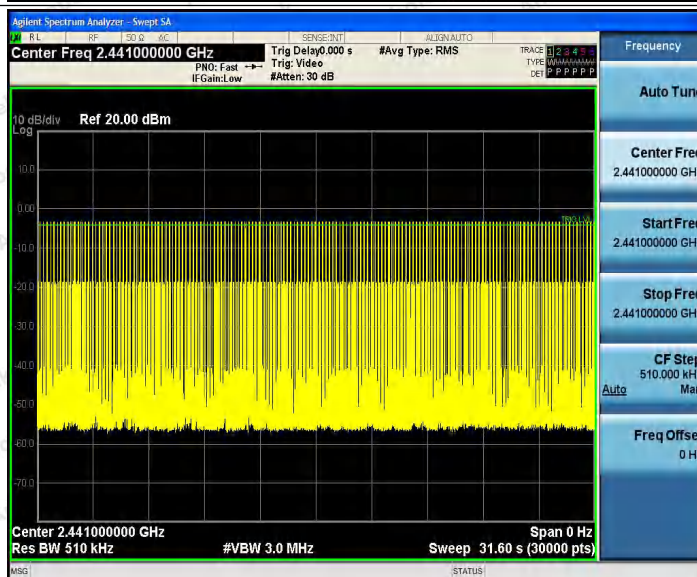
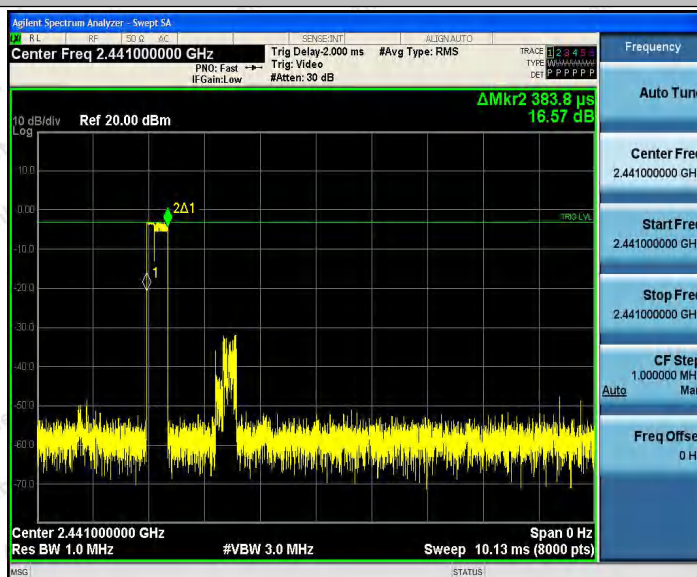
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2DH1_Ant1_Hop



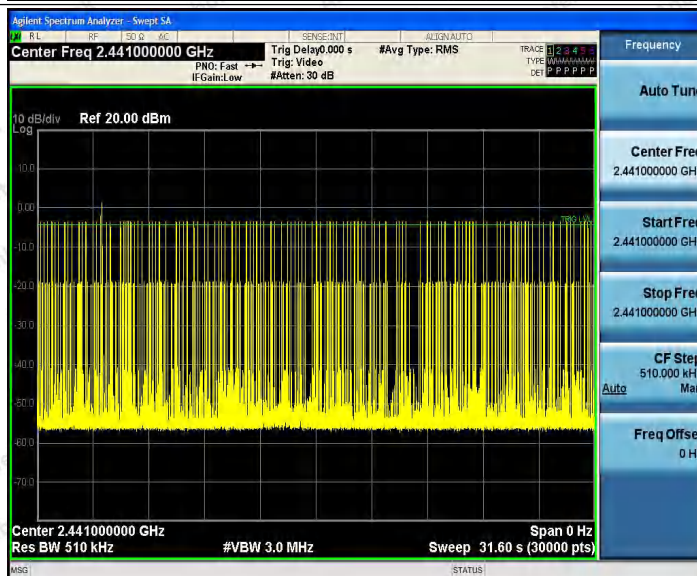
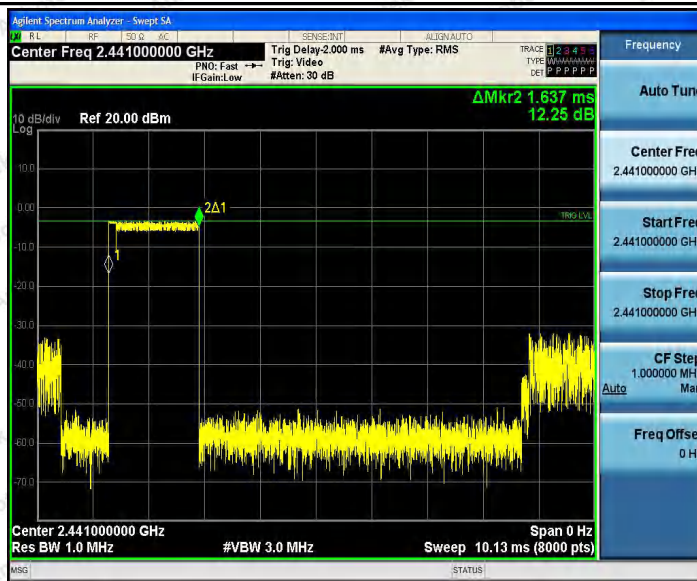
2DH3_Ant1_Hop

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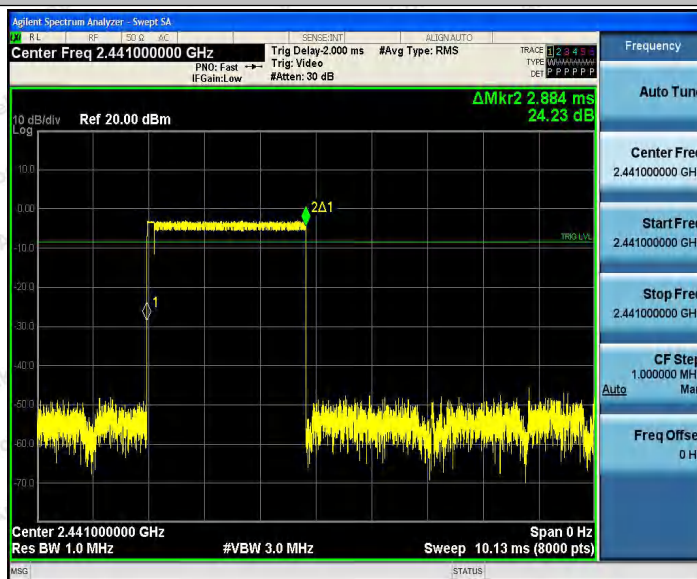
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2DH5_Ant1_Hop



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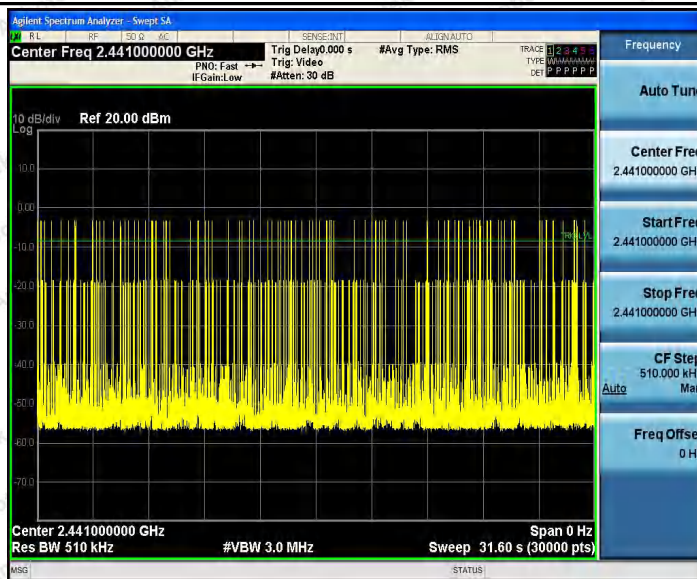
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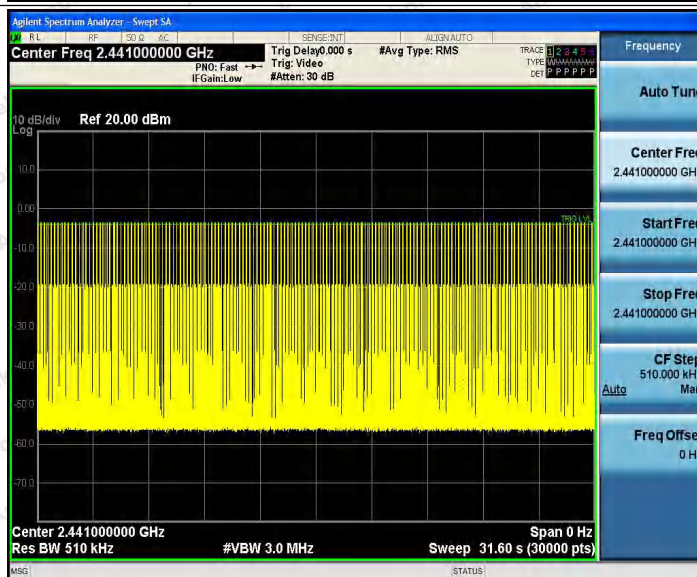
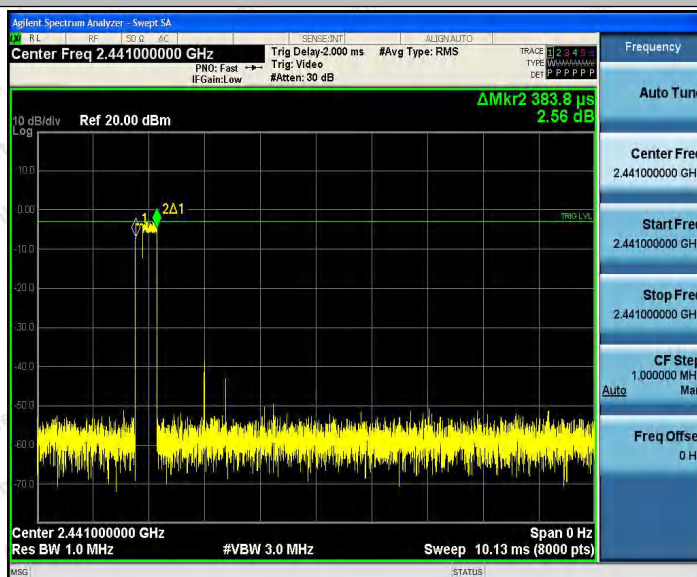
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3DH1_Ant1_Hop



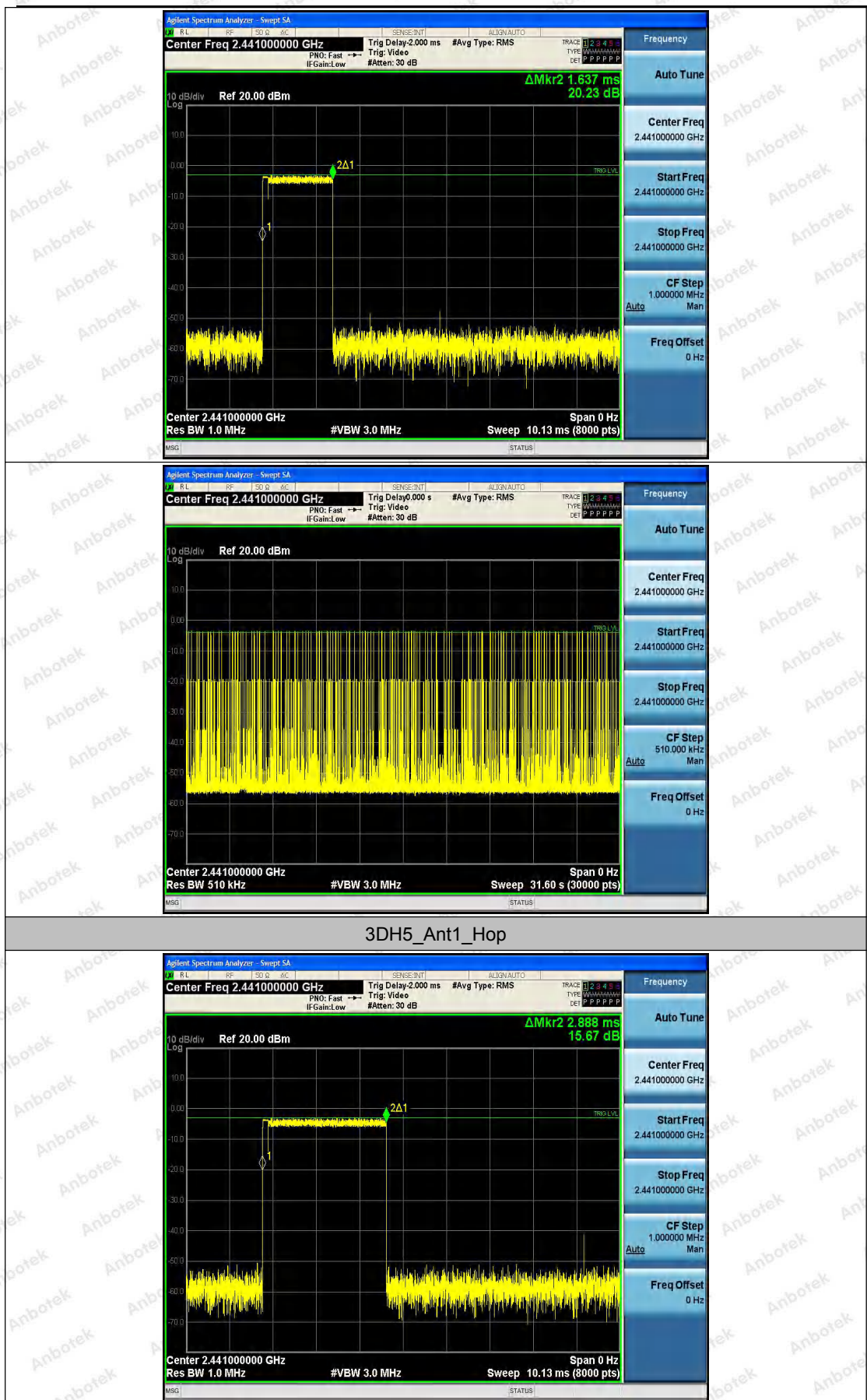
3DH3_Ant1_Hop

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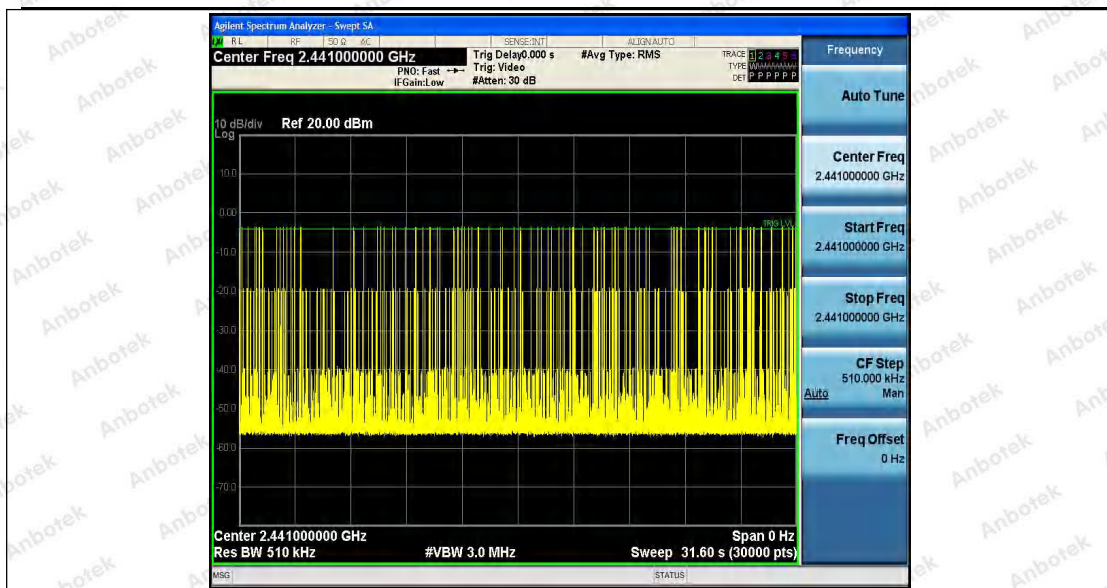
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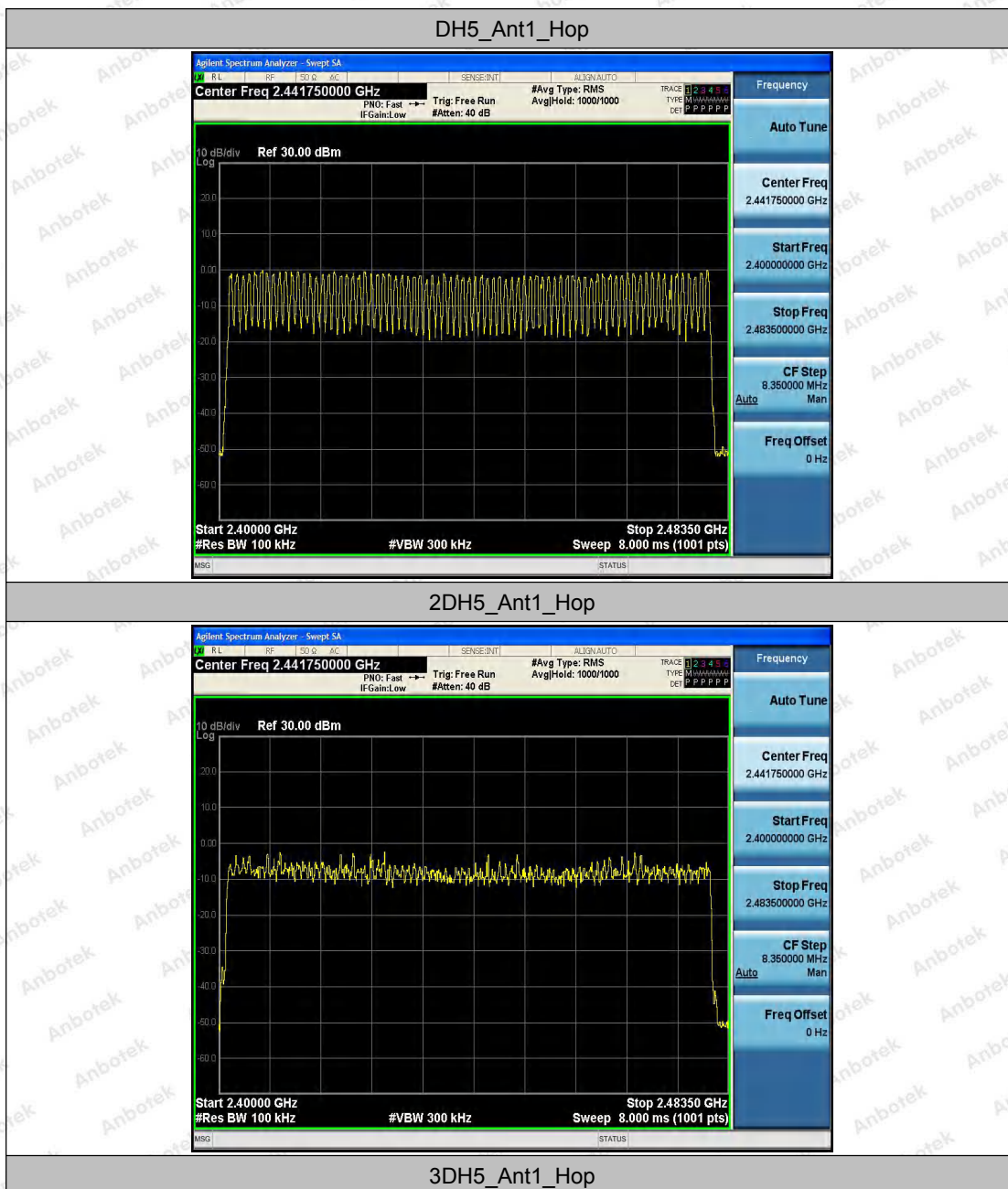
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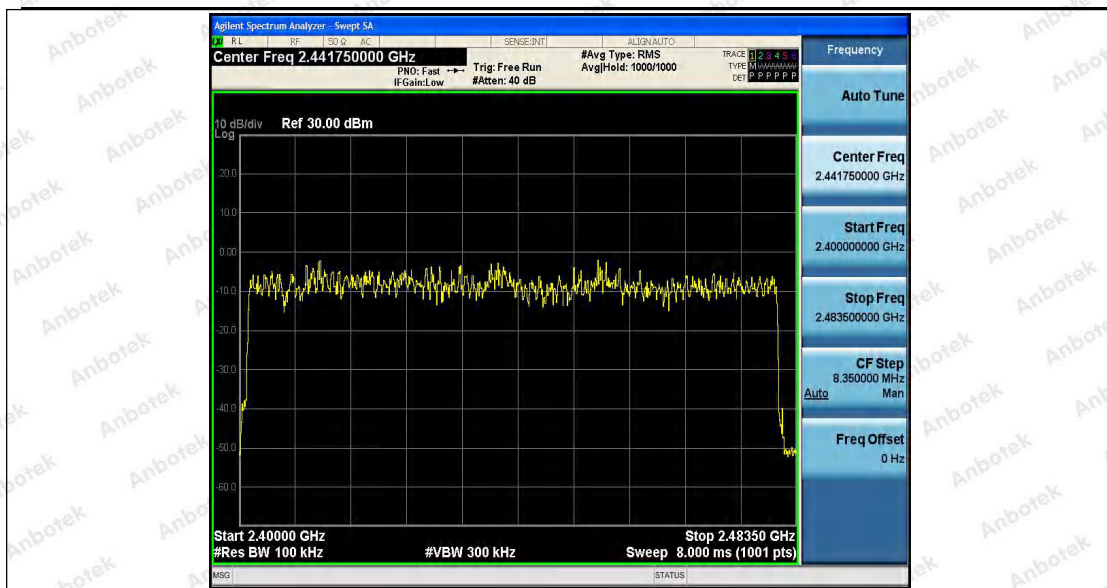
Appendix F: Number of hopping channels

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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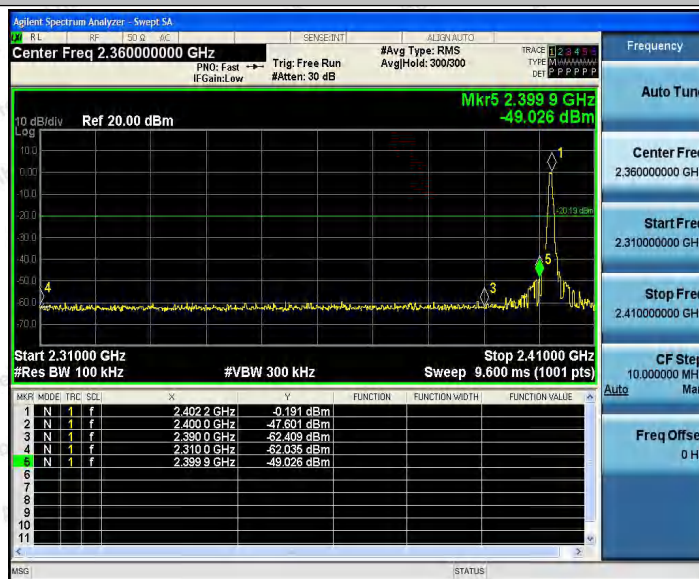
Appendix G: Band edge measurements

Test Result

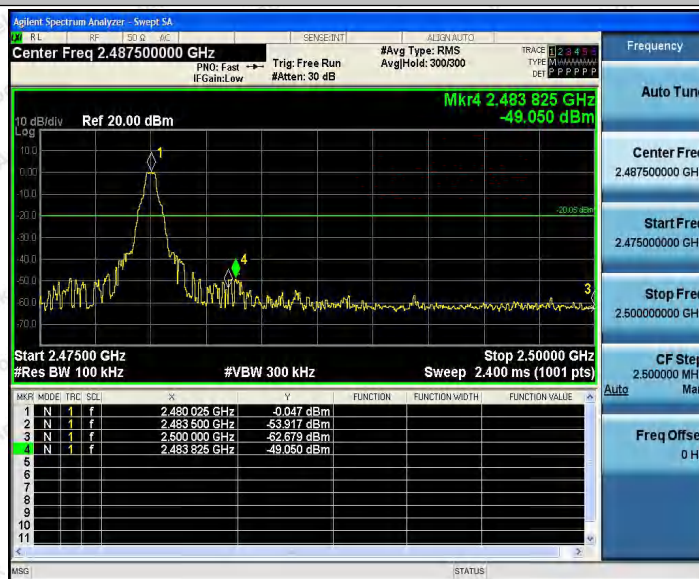
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.19	-49.03	≤ -20.19	PASS
		High	2480	-0.05	-49.05	≤ -20.05	PASS
		Low	Hop	-0.40	-59.17	≤ -20.4	PASS
		High	Hop	-0.29	-61.94	≤ -20.29	PASS
2DH5	Ant1	Low	2402	-1.61	-53.09	≤ -21.61	PASS
		High	2480	-2.58	-54.93	≤ -22.58	PASS
		Low	Hop	-2.21	-59.47	≤ -22.21	PASS
		High	Hop	-5.09	-61.74	≤ -25.09	PASS
3DH5	Ant1	Low	2402	-2.88	-51.07	≤ -22.88	PASS
		High	2480	-2.44	-58.62	≤ -22.44	PASS
		Low	Hop	-4.21	-59.36	≤ -24.21	PASS
		High	Hop	-5.66	-62.45	≤ -25.66	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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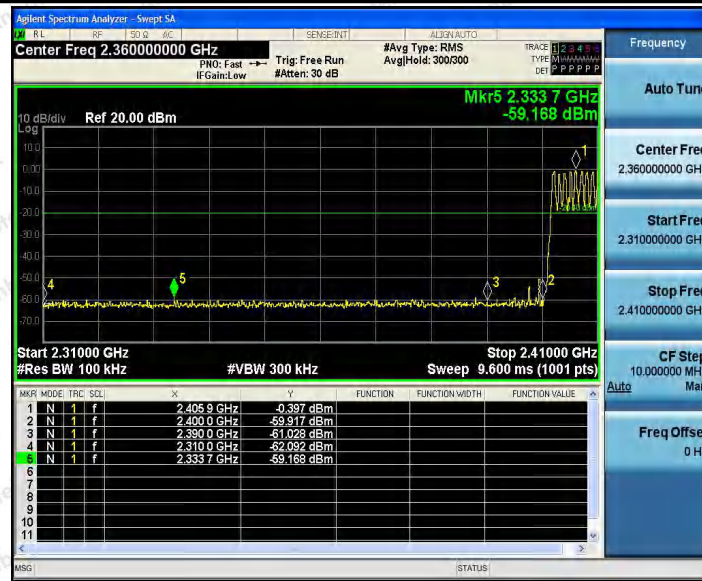
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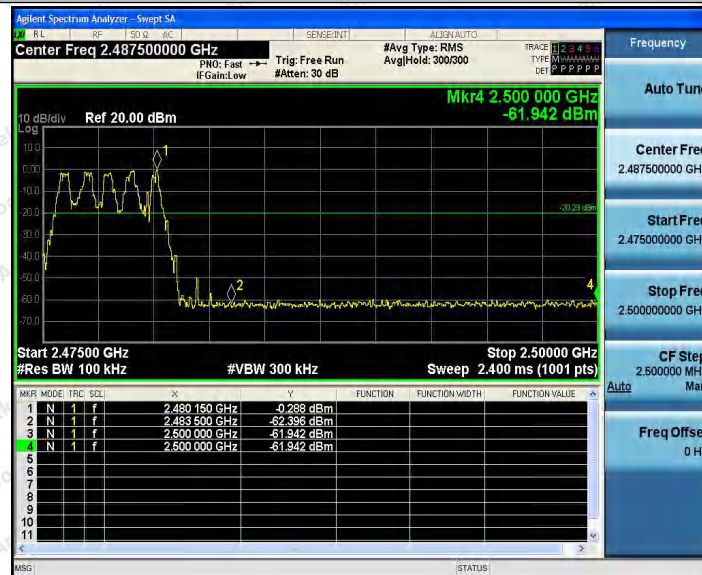
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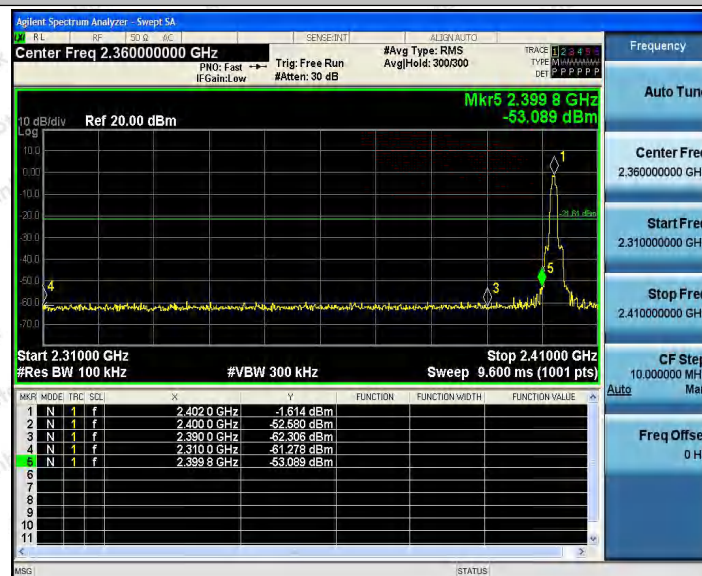
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



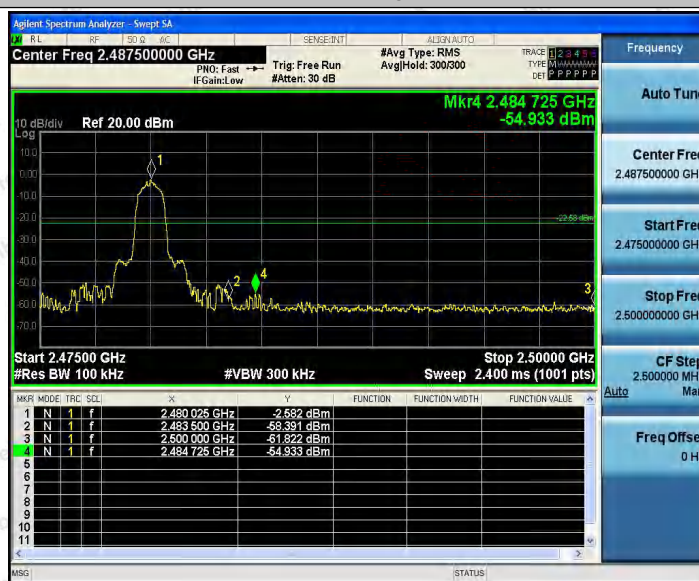
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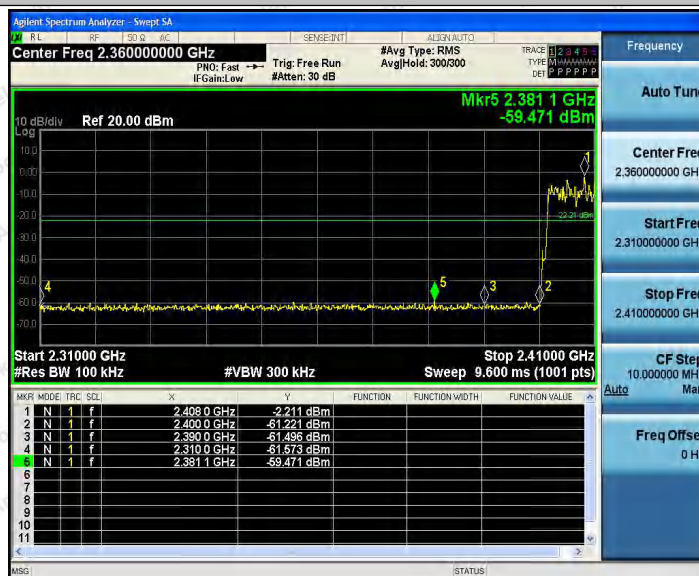
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



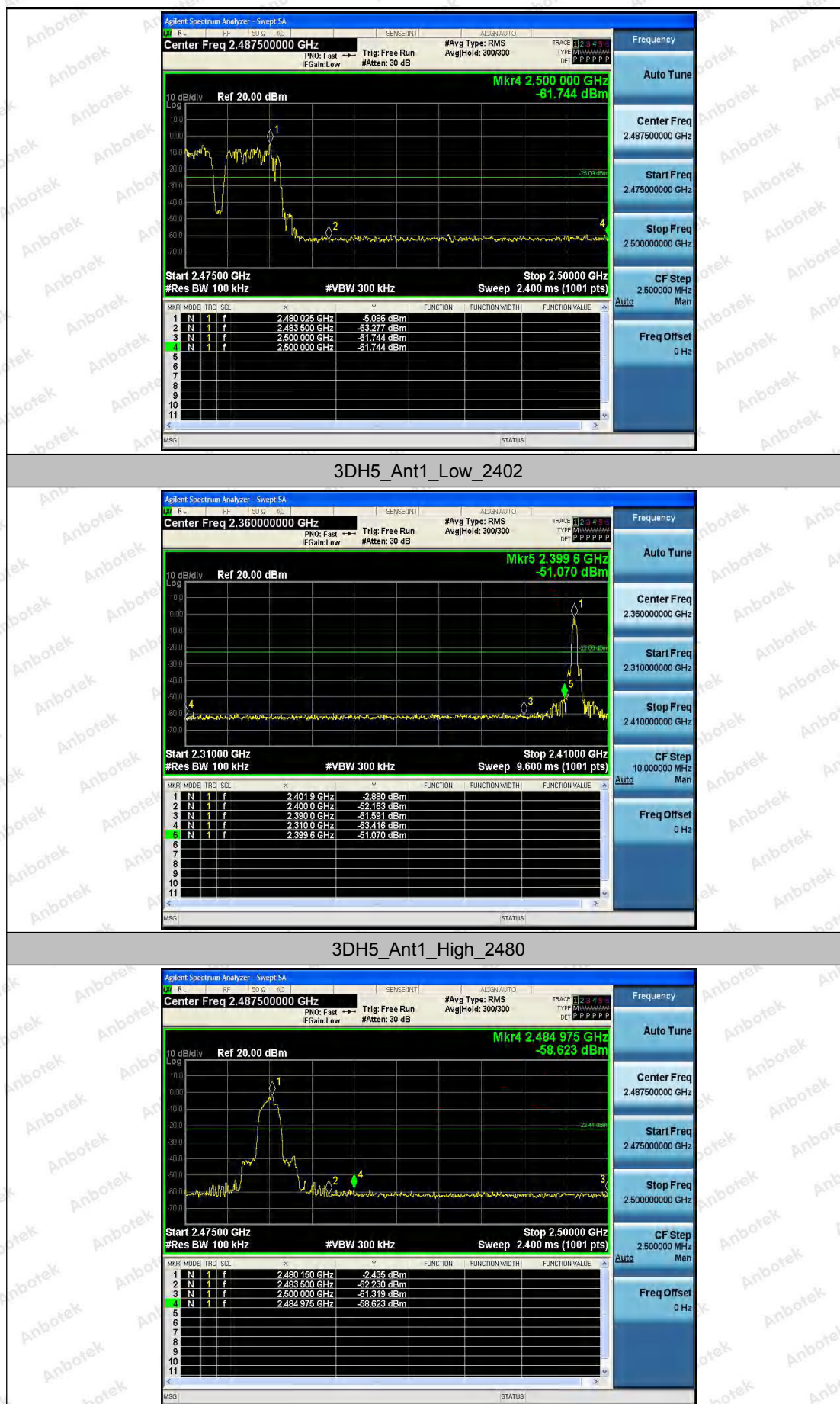
2DH5_Ant1_High_Hop

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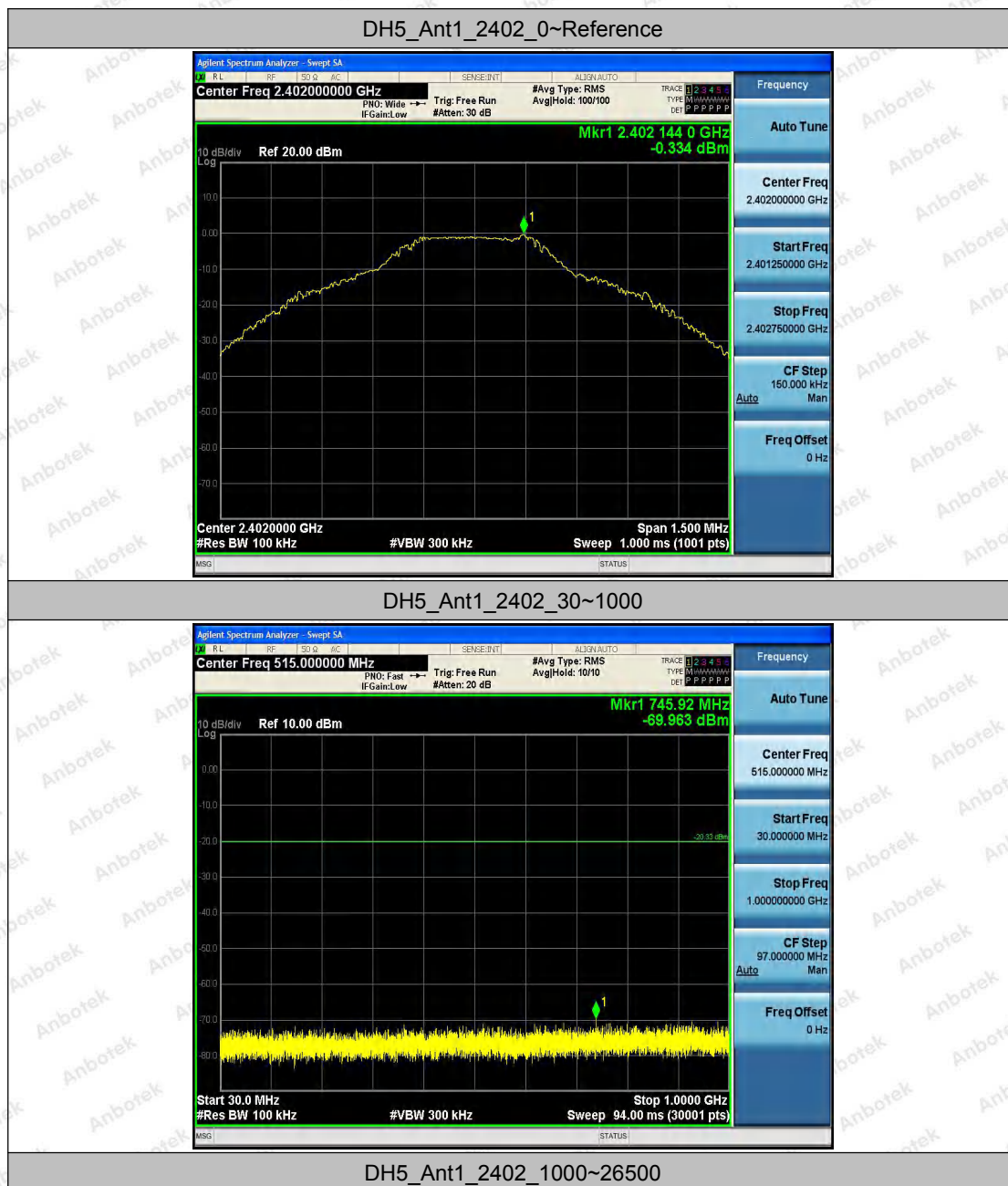
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.33	-0.33	---	PASS
			30~1000	-0.33	-69.96	≤-20.33	PASS
			1000~26500	-0.33	-41.52	≤-20.33	PASS
		2441	Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-70.37	≤-22.05	PASS
			1000~26500	-2.05	-44.84	≤-22.05	PASS
		2480	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-69.99	≤-19.9	PASS
			1000~26500	0.10	-47.85	≤-19.9	PASS
2DH5	Ant1	2402	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-70.01	≤-21.35	PASS
			1000~26500	-1.35	-45.86	≤-21.35	PASS
		2441	Reference	-3.53	-3.53	---	PASS
			30~1000	-3.53	-67.37	≤-23.53	PASS
			1000~26500	-3.53	-49.78	≤-23.53	PASS
		2480	Reference	-1.82	-1.82	---	PASS
			30~1000	-1.82	-69.64	≤-21.82	PASS
			1000~26500	-1.82	-52.64	≤-21.82	PASS
3DH5	Ant1	2402	Reference	-2.80	-2.80	---	PASS
			30~1000	-2.80	-69.84	≤-22.8	PASS
			1000~26500	-2.80	-46.82	≤-22.8	PASS
		2441	Reference	-3.60	-3.60	---	PASS
			30~1000	-3.60	-70.29	≤-23.6	PASS
			1000~26500	-3.60	-47.25	≤-23.6	PASS
		2480	Reference	-2.53	-2.53	---	PASS
			30~1000	-2.53	-70.7	≤-22.53	PASS
			1000~26500	-2.53	-51.5	≤-22.53	PASS

Test Graphs

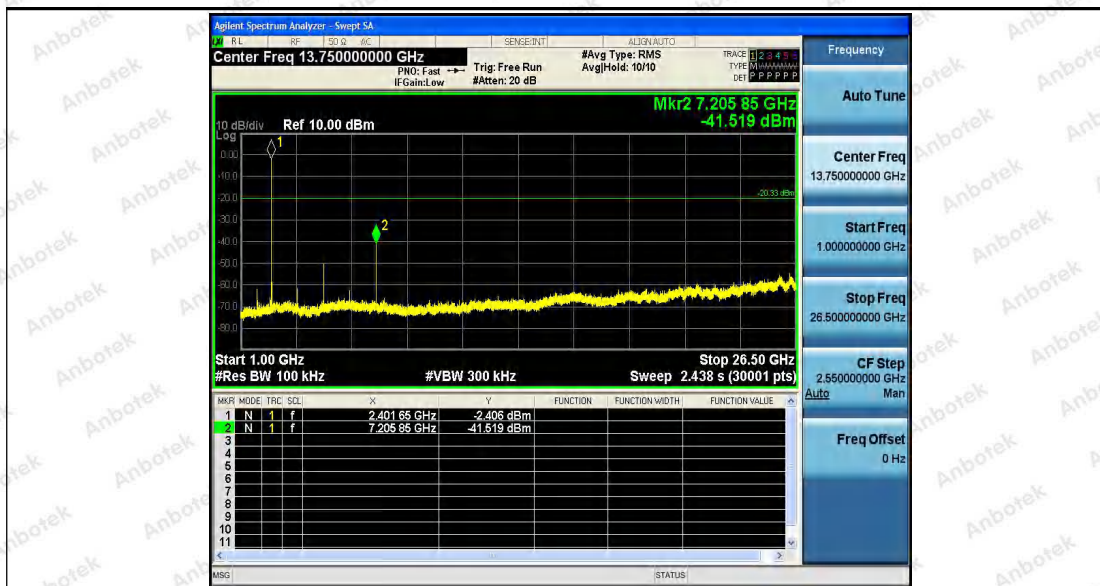


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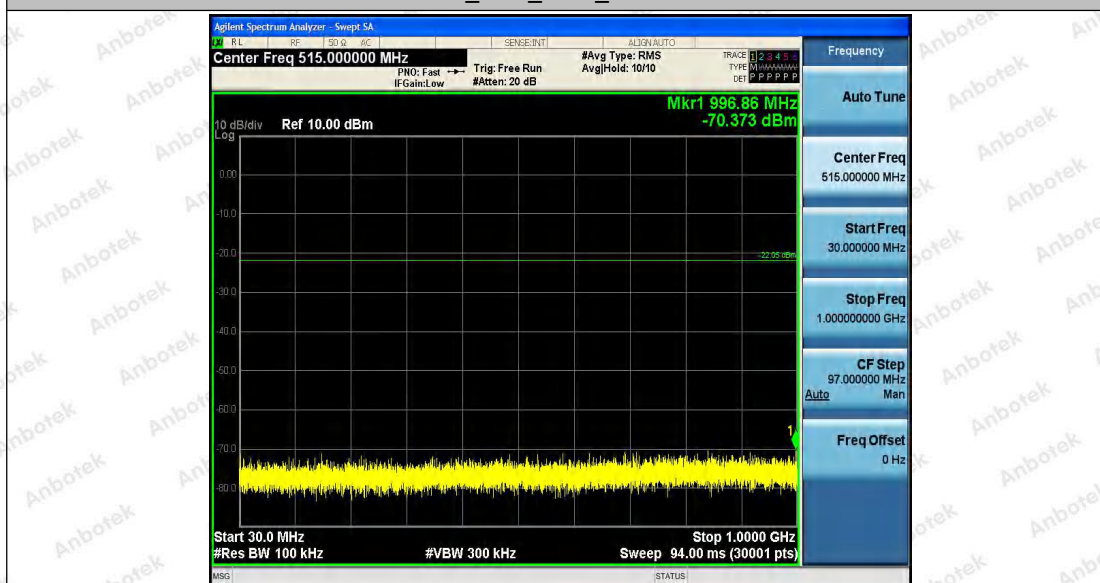
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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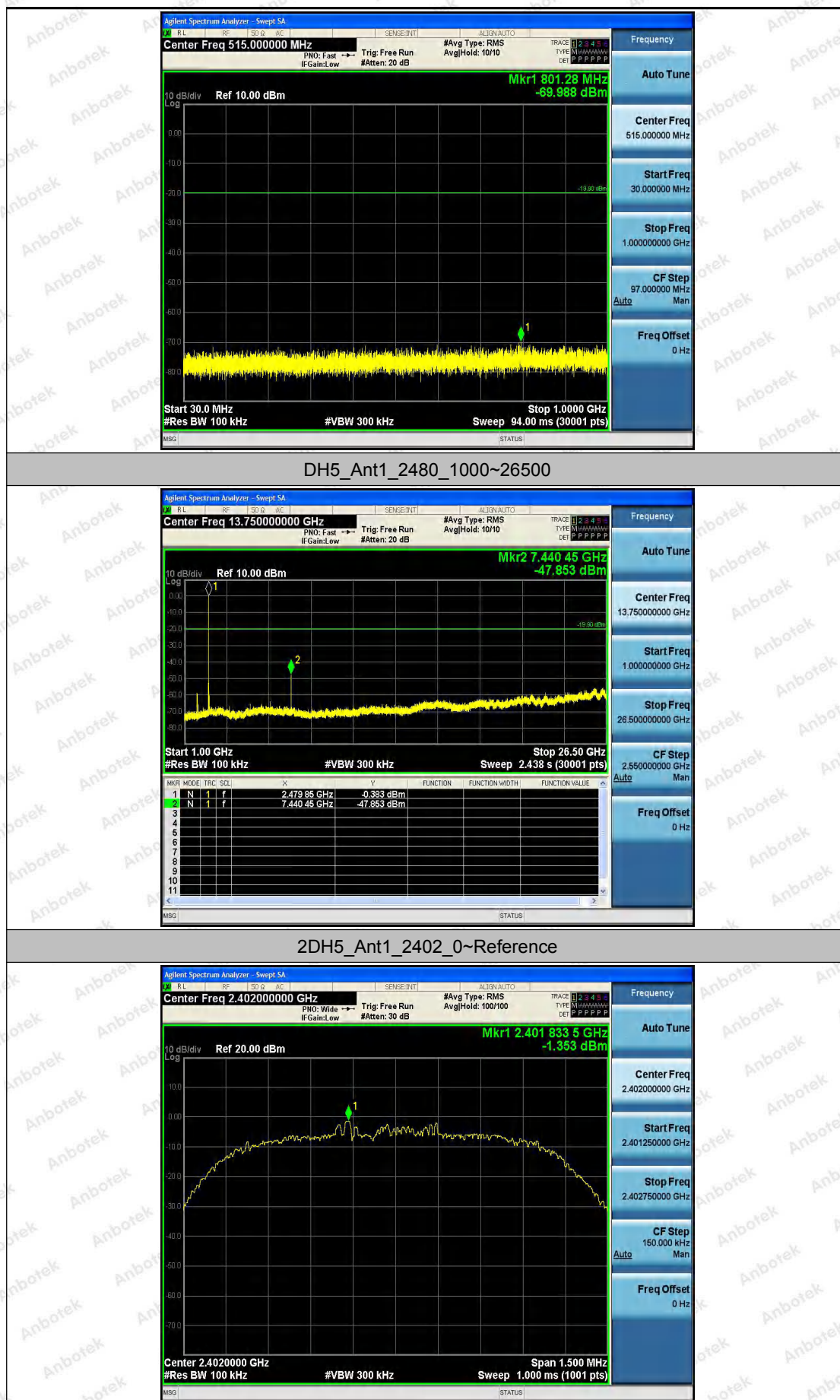


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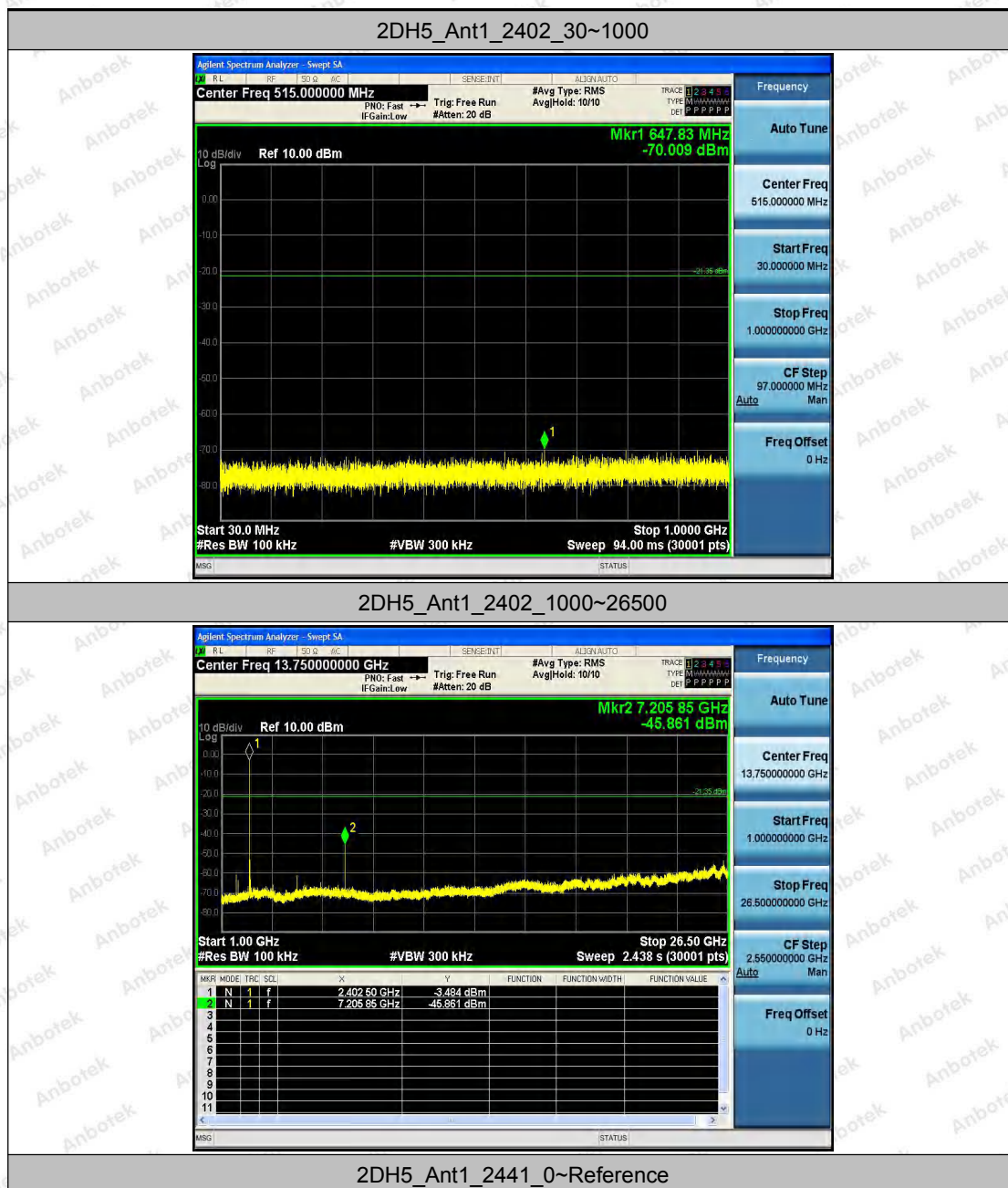


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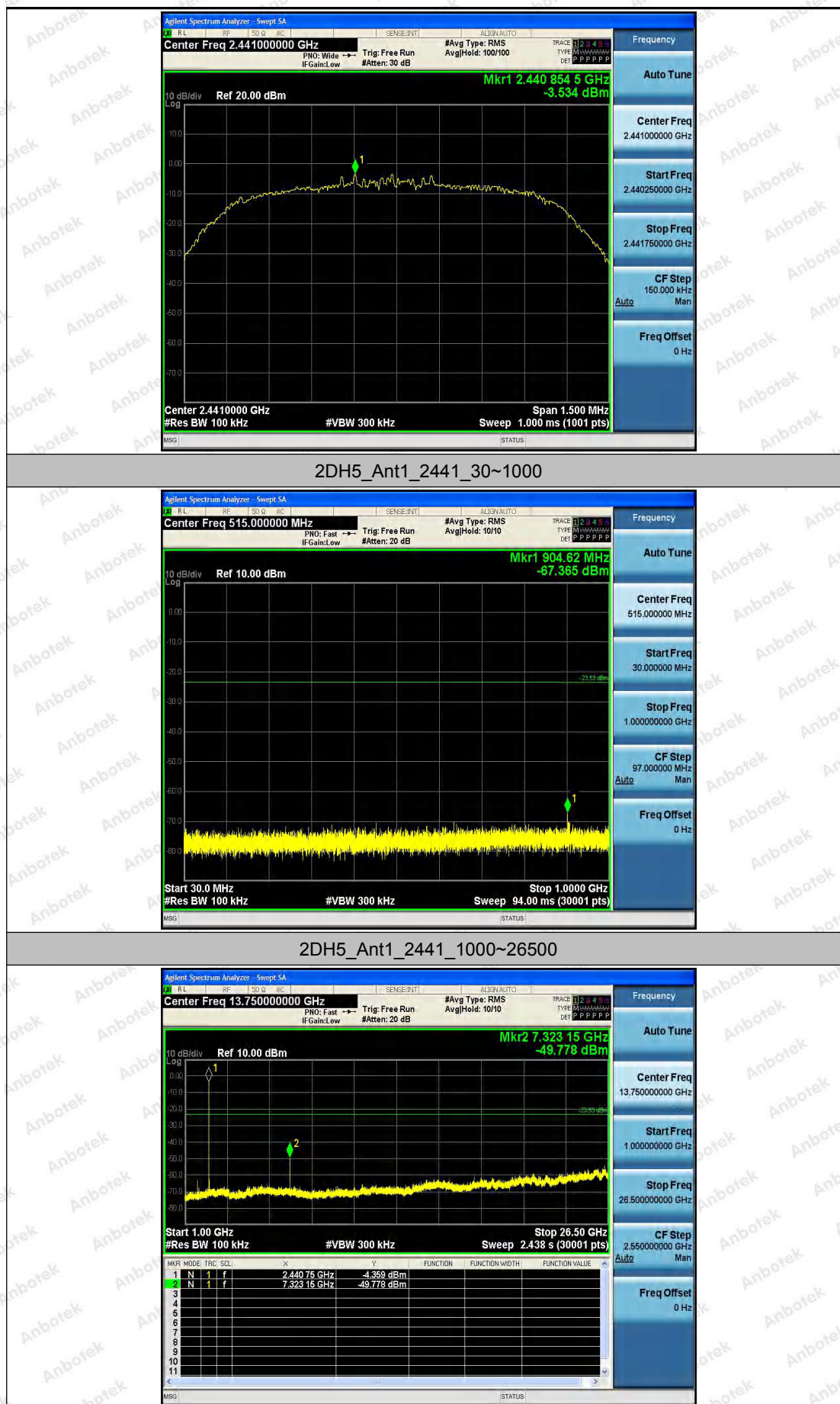


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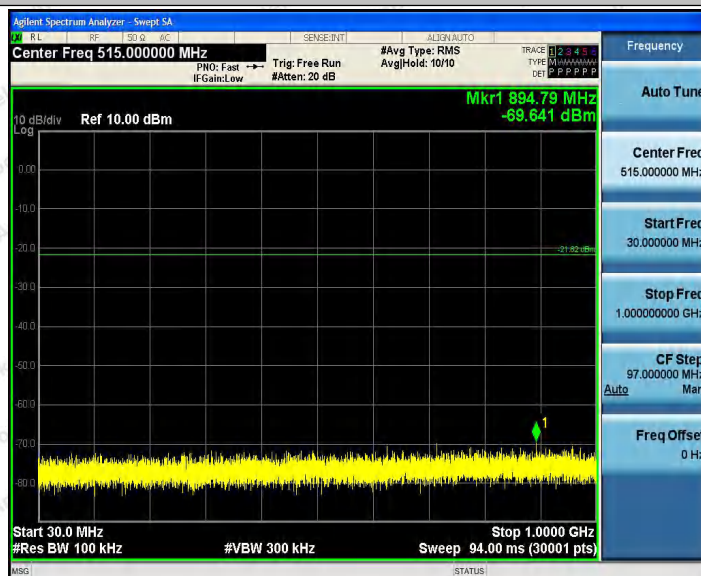
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



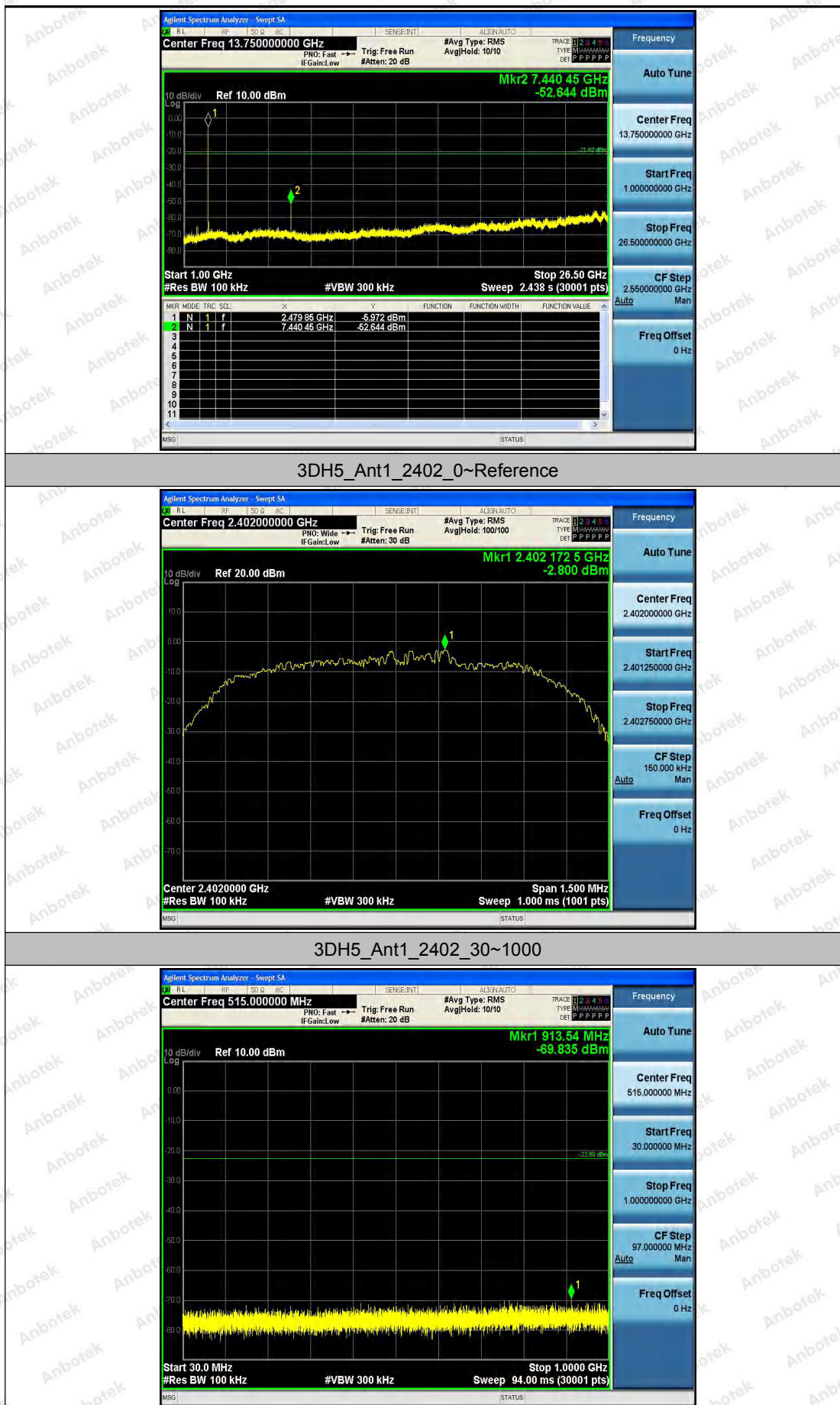
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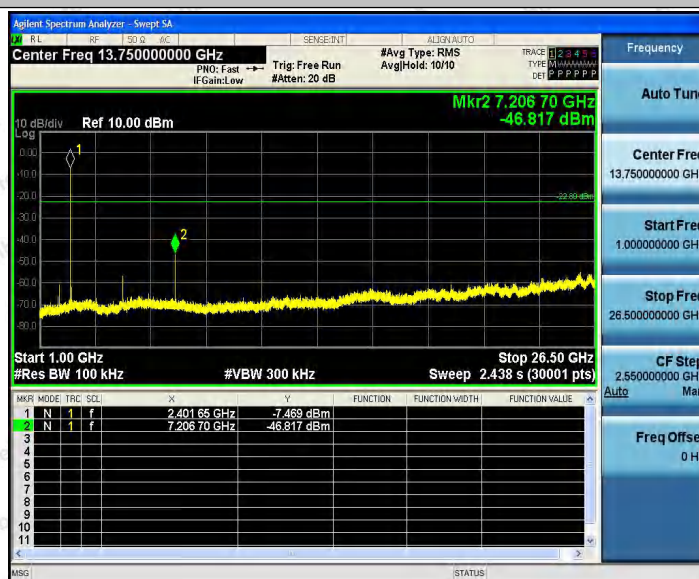
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



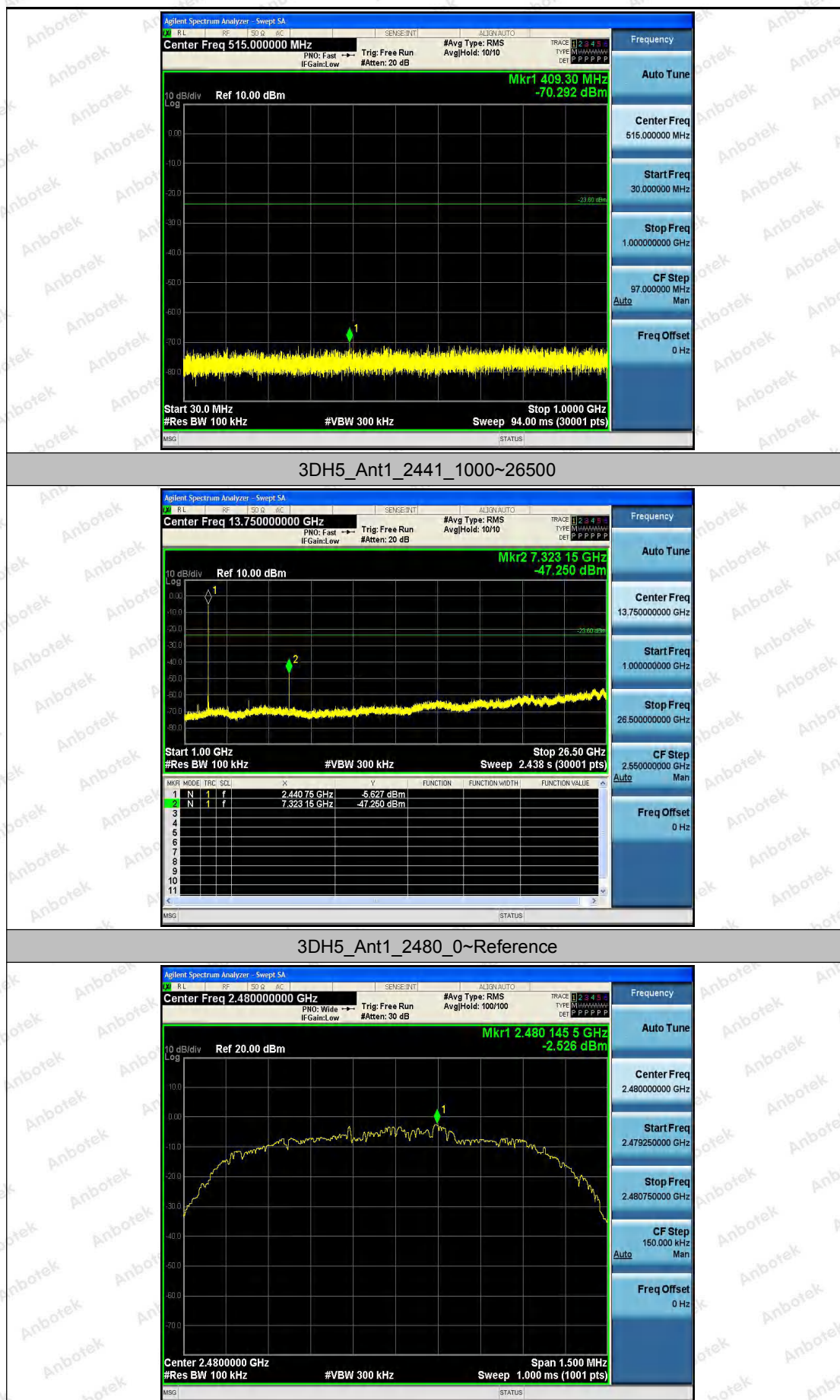
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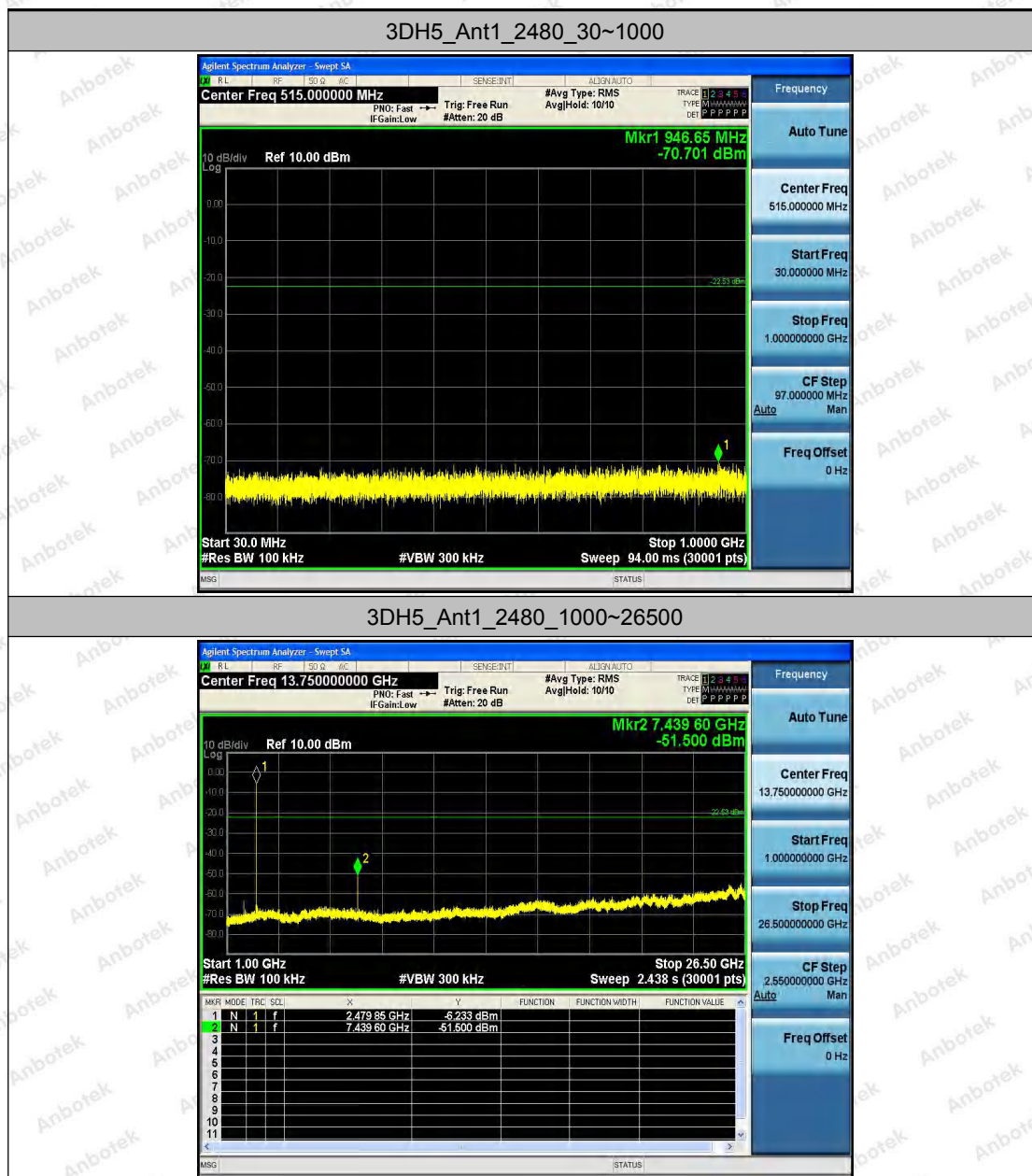


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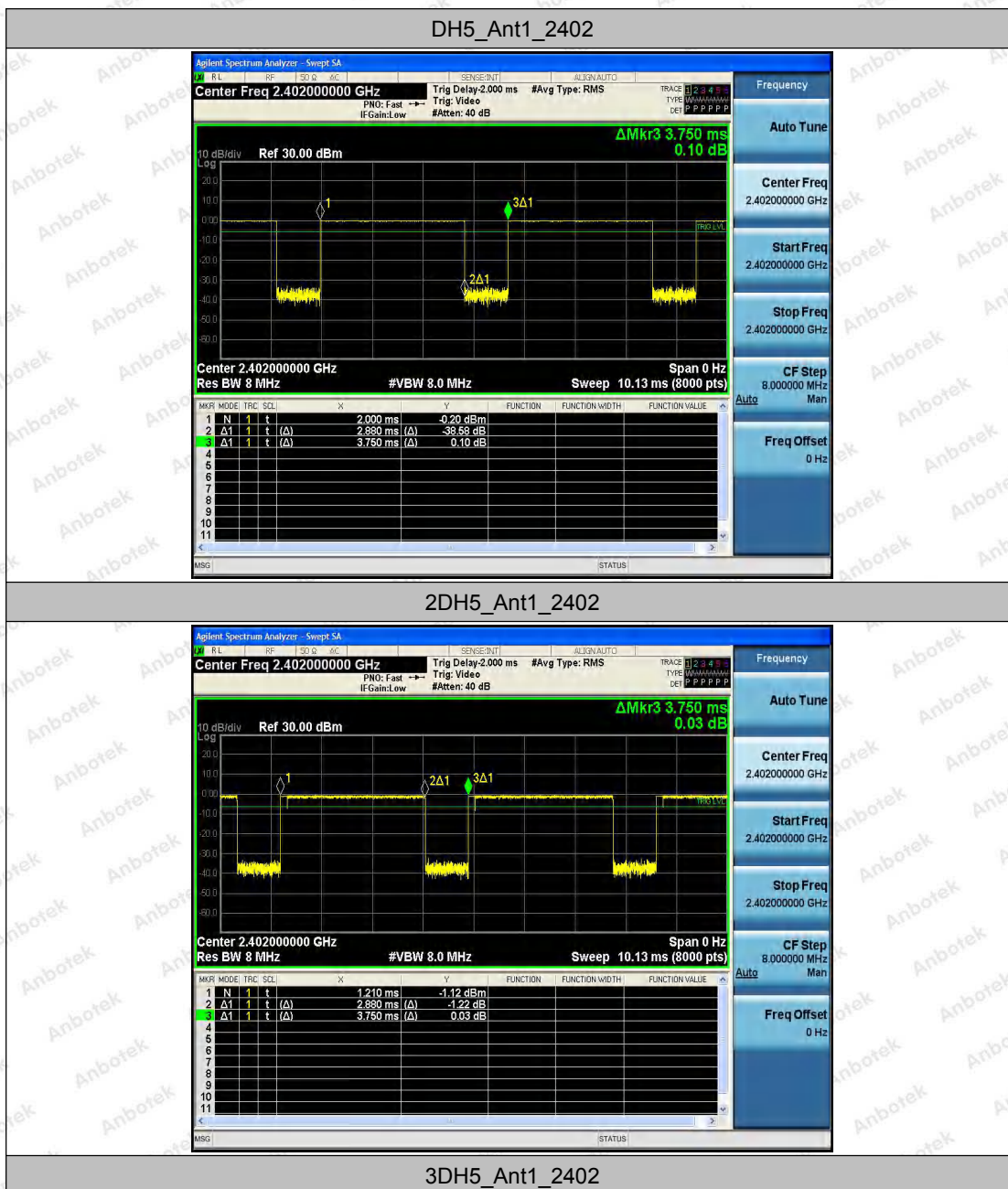
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Appendix I: Duty Cycle

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	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs

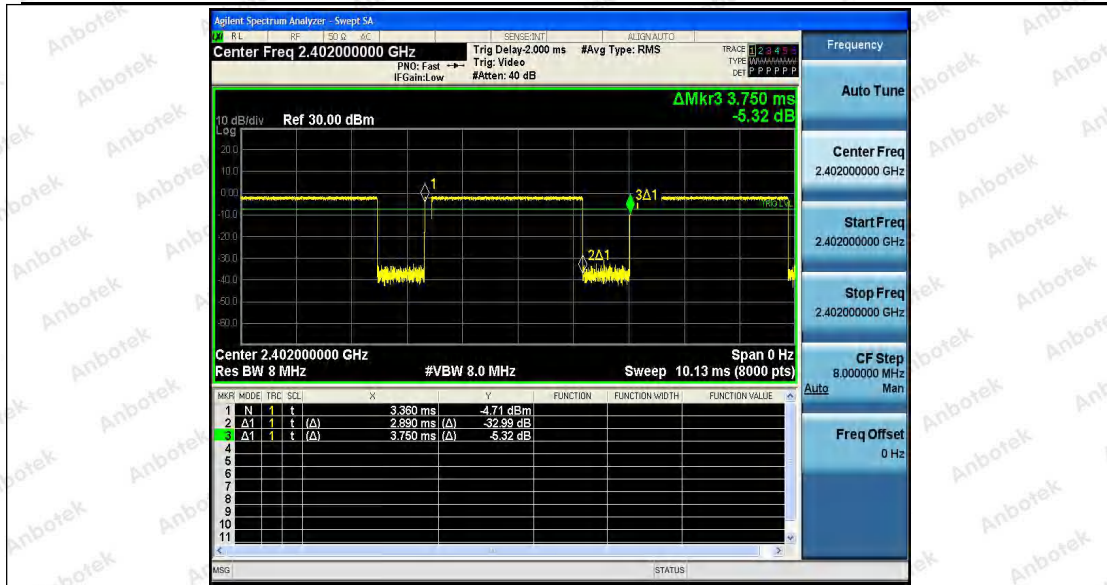


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